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Study of the Rocky Intertidal Communities of Central and Northern California: Year II

Volume III of III

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U.S. Department of the Interior
Minerals Management Service
Pacific OCS Region

STUDY OF THE
ROCKY INTERTIDAL COMMUNITIES
OF CENTRAL AND NORTHERN CALIFORNIA
YEAR II
VOLUME III OF III

Prepared by
Kinnetic Laboratories, Inc.
in Association with
The University of California, Santa Cruz,
Moss Landing Marine Laboratories,
and
TENERA Corporation

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TABLE OF CONTENTS

<u>VOLUME I:</u>	<u>Page</u>
List of Figures	v
List of Tables	xi
PREFACE	xiii
ABSTRACT	xv
TECHNICAL SUMMARY	xvii
INTRODUCTION	I-1
LITERATURE REVIEW AND ANALYSIS	I-3
Objectives	I-3
Status	I-3
FIELD SURVEY YEAR II	I-5
Introduction	I-5
Experimental Design	I-5
Methods	I-5
Field Methods	I-5
Taxonomic Methods and Nomenclature	I-8
Data Management Methods	I-9
Project Status	I-9
Field Work	I-9
Laboratory Analysis	I-9
Data Management	I-12
Sampling and Experimental Results	I-12
1. Do the species composition and abundance of organisms in rocky intertidal communities vary with season? Do they vary with latitude?	I-12
<i>Endocladia/Mastocarpus papillatus</i> Assemblage	I-13
Results	I-13
Summary	I-25
<i>Mytilus</i> Assemblage	I-25
Results	I-25
Summary	I-33

TABLE OF CONTENTS (Continued)

	<u>Page</u>
2. How long does a disturbed (completely cleared) area take to recover after this disturbance? How is recovery time and pattern of recovery (or lack thereof) affected by assemblage, site, latitude, and time of year of disturbance?	I-33
<i>Endocladia/Mastocarpus papillatus</i> Assemblage	I-38
Results	I-38
Spring Clearings	I-38
Fall Clearings	I-48
Summary	I-48
<i>Mytilus</i> Assemblage	I-58
Results	I-58
Spring Clearings	I-58
Fall Clearings	I-67
Summary	I-67
Effects of Size and Severity of Disturbance: Results of Supplemental Study	I-81
Conclusions	I-82
PROJECT RECOMMENDATIONS	I-87
Objectives	I-87
Status	I-87
REFERENCES	I-89
APPENDIX A: Effects of Size and Severity of Disturbance on the Recovery of a Rocky Intertidal Assemblage	I-91
APPENDIX B: Data Analysis Equations	I-165
<u>VOLUME II</u>	
APPENDIX C: Species Summaries Spring 1985 through Fall 1986	II-1

TABLE OF CONTENTS (Continued)

	<u>Page</u>
<u>VOLUME III</u>	
APPENDIX D: Ranked Species Abundances by Site	III-1
APPENDIX E: Two-Way ANOVA Results	III-159
APPENDIX F: Bray-Curtis Similarity Indices	III-217

VOLUME III
TABLE OF CONTENTS

	<u>Page</u>
APPENDIX D: Ranked Species Abundances by Site	III-1
APPENDIX E: Two-Way ANOVA Results	III-159
APPENDIX F: Bray-Curtis Similarity Indices	III-217

APPENDIX D

Ranked Species Abundances by Site

APPENDIX D

Ranked Species Abundances by Site

TABLE OF CONTENTS

	<u>Page</u>
<i>Endocladia/Mastocarpus papillatus</i> Assemblage	
Spring 1985	
All Stations	III-7
Kibesillah Hill	III-10
Sea Ranch	III-12
Bollinas	III-14
Pescadero Rocks	III-16
Pt. Sierra Nevada	III-18
Diablo Canyon	III-19
Summer 1985	
All Stations	III-20
Kibesillah Hill	III-23
Sea Ranch	III-24
Bollinas	III-26
Pescadero Rocks	III-27
Pt. Sierra Nevada	III-28
Diablo Canyon	III-29
Fall 1985	
All Stations	III-30
Kibesillah Hill	III-34
Sea Ranch	III-36
Bollinas	III-38
Pescadero Rocks	III-40
Pt. Sierra Nevada	III-42
Diablo Canyon	III-43
Winter 1986	
All Stations	III-45
Kibesillah Hill	III-48
Sea Ranch	III-49
Bollinas	III-51
Pescadero Rocks	III-53
Pt. Sierra Nevada	III-54
Diablo Canyon	III-55

TABLE OF CONTENTS (Continued)

	<u>Page</u>
Spring 1986	
All Stations	III-56
Kibesillah Hill	III-59
Sea Ranch	III-60
Bolas	III-62
Pescadero Rocks	III-63
Pt. Sierra Nevada	III-64
Diablo Canyon	III-65
Fall 1986	
All Stations	III-66
Kibesillah Hill	III-69
Sea Ranch	III-70
Bolas	III-72
Pescadero Rocks	III-74
Pt. Sierra Nevada	III-76
Diablo Canyon	III-77
<i>Mytilus</i> Assemblage	
Spring 1985	
All Stations	III-81
Kibesillah Hill	III-84
Sea Ranch	III-85
Bolas	III-86
Pescadero Rocks	III-87
Pt. Sierra Nevada	III-89
Diablo Canyon	III-91
Summer 1985	
All Stations	III-92
Kibesillah Hill	III-95
Sea Ranch	III-96
Bolas	III-98
Pescadero Rocks	III-99
Pt. Sierra Nevada	III-101
Diablo Canyon	III-103

TABLE OF CONTENTS (Continued)

	<u>Page</u>
Fall 1985	
All Stations	III-105
Kibesillah Hill	III-109
Sea Ranch	III-110
Bolas	III-112
Pescadero Rocks	III-113
Pt. Sierra Nevada	III-115
Diablo Canyon	III-117
Winter 1986	
All Stations	III-119
Kibesillah Hill	III-122
Sea Ranch	III-123
Bolas	III-124
Pescadero Rocks	III-125
Pt. Sierra Nevada	III-127
Diablo Canyon	III-129
Spring 1986	
All Stations	III-130
Kibesillah Hill	III-133
Sea Ranch	III-134
Bolas	III-136
Pescadero Rocks	III-137
Pt. Sierra Nevada	III-139
Diablo Canyon	III-141
Fall 1986	
All Stations	III-143
Kibesillah Hill	III-146
Sea Ranch	III-148
Bolas	III-150
Pescadero Rocks	III-152
Pt. Sierra Nevada	III-154
Diablo Canyon	III-156

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
ENDOCLADIA MURICATA	RHODOPHYTA	54.49	27.41	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	19.86	16.14	91.67						
PETROCELIS SP(P).	RHODOPHYTA	11.99	15.04	66.67						
CRUSTOSE CORALLINES, UNIDEN.	RHODOPHYTA	8.01	11.83	55.56						
BALANUS GLANDULA	CIRRIPIEDIA	6.44	9.69	63.89						
FUCUS DISTICHUS	PHAEOPHYTA	5.19	10.50	44.44						
MYTILUS CALIFORNIANUS	PELECYPODA	3.47	7.99	38.89						
CHTHAMALUS SP(P).	CIRRIPIEDIA	2.18	4.66	33.33						
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	1.99	3.67	36.11						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	1.99	2.98	50.00						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.99	3.03	44.44						
GELIDIUM PUSILLUM	RHODOPHYTA	1.44	3.17	25.00						
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	1.34	3.11	19.44						
G.A.T.G.O.R.	CHLOROPHYTA	1.25	3.57	13.89						
TEGULA FUNEBRALIS	GASTROPODA	1.20	1.52	44.44						
ANALIPUS JAPONICUS	PHAEOPHYTA	1.20	3.28	19.44						
RALFSIA SP(P).	PHAEOPHYTA	0.97	2.40	16.67						
IRIDAEA FLACCIDA	RHODOPHYTA	0.79	1.57	25.00						
GELIDIUM COULTERI	RHODOPHYTA	0.74	2.20	16.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.65	1.40	22.22						
GIGARTINA LEPTORHYNCHOS	RHODOPHYTA	0.65	2.82	11.11						
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.65	1.56	19.44						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD.			MEAN % STD.			MEAN % STD.		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
RED CRUSTS	RHODOPHYTA	0.65	1.88	13.89						
MASTOCARPUS JARDINII	RHODOPHYTA	0.60	1.70	13.89						
HESPEROPHYCUS HARVEYANUS	PHAEOPHYTA	0.37	1.44	11.11						
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	0.37	1.70	8.33						
HALOSACCION GLANDIFORME	RHODOPHYTA	0.32	1.18	8.33						
NEORHODOMELA LARIX	RHODOPHYTA	0.32	1.37	5.56						
ULVA CALIFORNICA	CHLOROPHYTA	0.32	1.94	2.78						
BOSSIELLA PLUMOSA	RHODOPHYTA	0.28	1.23	5.56						
ULVA LOBATA	CHLOROPHYTA	0.23	0.58	13.89						
PORPHYRA PERFORATA	RHODOPHYTA	0.23	0.71	11.11						
"COLLISELLA" SCABRA	GASTROPODA	0.19	0.53	11.11						
LOTTIA PELTA	GASTROPODA	0.14	0.47	8.33						
CHAETOMORPHA LINUM	CHLOROPHYTA	0.14	0.61	5.56						
LASAEA SUBVIRIDIS	PELECYPODA	0.14	0.61	5.56						
POLLICIPES POLYMERUS	CIRRIPIEDIA	0.14	0.61	5.56						
PORPHYRA SP(P).	RHODOPHYTA	0.14	0.61	5.56						
ANTHOPELURA XANTHOGRAMMICA	ANTHOZOA	0.09	0.39	5.56						
IRIDAEA HETEROCARPA	RHODOPHYTA	0.09	0.39	5.56						
LOTTIA DIGITALIS	GASTROPODA	0.09	0.39	5.56						
LOTTIA PARADIGITALIS	GASTROPODA	0.09	0.39	5.56						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.09	0.39	5.56						
ODONTHALIA FLOCCOSA	RHODOPHYTA	0.09	0.39	5.56						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ARTICULATED CORALLINES (JUV.)	RHODOPHYTA	0.09	0.56	2.78						
BOSSIELLA ORBIGNIANA SSP. DIC	RHODOPHYTA	0.05	0.28	2.78						
CERAMUM EATONIANUM	RHODOPHYTA	0.05	0.28	2.78						
GIGARTINA CANALICULATA	RHODOPHYTA	0.05	0.28	2.78						
LEPIDOCHITONA DENTENS	POLYPLACOPHORA	0.05	0.28	2.78						
MICROCLADIA BOREALIS	RHODOPHYTA	0.05	0.28	2.78						
MOPALIA MUSCOSA	POLYPLACOPHORA	0.05	0.28	2.78						
NUCELLA EMARGINATA	GASTROPODA	0.05	0.28	2.78						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.05	0.28	2.78						
SEPTIFER BIFURCATUS	PELECYPODA	0.05	0.28	2.78						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %		STD. %	MEAN %		STD. %	MEAN %		STD. %
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
ENDOCLADIA MURICATA	RHODOPHYTA	53.61	14.81	100.00						
FUCUS DISTICHUS	PHAEOPHYTA	18.61	20.23	66.67						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	10.00	15.17	66.67						
BALANUS GLANDULA	CIRRIPIEDIA	6.67	12.38	66.67						
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	6.39	5.10	33.33						
MYTILUS CALIFORNIANUS	PELECYPODA	4.44	9.35	33.33						
PETROCELIS SP(P).	RHODOPHYTA	4.44	2.51	100.00						
GLADOPHORA COLUMBIANA	CHLOROPHYTA	3.33	4.59	50.00						
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	1.94	4.00	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.67	3.33	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	1.67	2.79	33.33						
RAFSIA SP(P).	PHAEOPHYTA	1.67	3.33	33.33						
REGULA FUNEBRALIS	GASTROPODA	1.39	1.25	66.67						
HALOSACCION GLANDIFORME	RHODOPHYTA	1.11	2.02	33.33						
NEORHODOMELA LARIX	RHODOPHYTA	1.11	2.72	16.67						
IRIDAEA FLACCIDA	RHODOPHYTA	0.83	1.39	33.33						
PORPHYRA SP(P).	RHODOPHYTA	0.83	1.39	33.33						
CHTHAMALUS SP(P).	CIRRIPIEDIA	0.83	2.04	16.67						
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	0.83	2.04	16.67						
ARTICULATED CORALLINES (JUV.)	RHODOPHYTA	0.56	1.36	16.67						
"COLLISELLA" SCABRA	GASTROPODA	0.28	0.68	16.67						
ANTHOPLEURA XANTHOGRAMMICA	ANTHOZOA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.28	0.68	16.67						
LOTTIA Pelta	GASTROPODA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	66.11	11.58	100.00						
PETROCELIS SP(P).	RHODOPHYTA	21.11	22.03	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	10.83	7.80	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	7.22	11.67	50.00						
FUCUS DISTICHUS	PHAEOPHYTA	5.00	3.94	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	5.00	4.71	66.67						
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	4.44	4.67	66.67						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	3.89	4.55	66.67						
CHTHAMALUS SP(P).	CIRRIPIEDIA	3.61	5.10	50.00						
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	2.50	3.91	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.22	3.60	33.33						
IRIDAEA FLACCIDA	RHODOPHYTA	1.94	2.67	50.00						
TEGULA FUNEBRALIS	GASTROPODA	1.11	1.36	50.00						
MASTOCARPUS JARDINII	RHODOPHYTA	1.11	1.72	33.33						
BOSSIELLA PLUMOSA	RHODOPHYTA	1.11	2.72	16.67						
HALOSACCION GLANDIFORME	RHODOPHYTA	0.83	2.04	16.67						
NEORHODOMELA LARIX	RHODOPHYTA	0.83	2.04	16.67						
ODONTHALIA FLOCCOSA	RHODOPHYTA	0.56	0.86	33.33						
"COLLISELLA" SCABRA	GASTROPODA	0.28	0.68	16.67						
ANALIPUS JAPONICUS	PHAEOPHYTA	0.28	0.68	16.67						
ANTHOPLEURA XANTHOGRAMMICA	ANTHOZOA	0.28	0.68	16.67						
BOSSIELLA ORBIGNIANA SSP. DIC	RHODOPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD. %			MEAN % STD. %			MEAN % STD. %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.28	0.68	16.67						
IRIDAEA HETEROCARPA	RHODOPHYTA	0.28	0.68	16.67						
MICROCLADIA BOREALIS	RHODOPHYTA	0.28	0.68	16.67						
MYTILUS CALIFORNIANUS	PELECYPODA	0.28	0.68	16.67						
NUCELLA EMARGINATA	GASTROPODA	0.28	0.68	16.67						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.28	0.68	16.67						
PODOPHYA PERFORATA	RHODOPHYTA	0.28	0.68	16.67						
SEPTIFER BIFURCATUS	PELECYPODA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
MASTOCARPUS PAPILLATUS	RHODOPHYTA	42.22	14.48	100.00						
PETROCELIS SP(P).	RHODOPHYTA	25.83	14.71	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	16.11	13.11	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	8.06	5.91	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	7.50	8.35	66.67						
FUCUS DISTICHUS	PHAEOPHYTA	7.22	5.64	100.00						
ANALIPUS JAPONICUS	PHAEOPHYTA	6.67	5.58	83.33						
GELIDIUM PUSTULUM	RHODOPHYTA	5.28	5.21	33.33						
RALEPSIA SP(P).	PHAEOPHYTA	4.17	3.46	66.67						
TEGULA FUNEBRALIS	GASTROPODA	3.33	1.05	100.00						
CRYPTOSIPHONIA WOODII	RHODOPHYTA	3.33	2.36	83.33						
GELIDIUM COLTERT	RHODOPHYTA	1.67	2.11	50.00						
MYTILUS CALIFORNIANUS	PELECYPODA	1.39	0.68	83.33						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.83	1.39	33.33						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.83	1.39	33.33						
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	0.56	0.86	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.56	0.86	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.86	33.33						
LOTTIA PARADIGITALIS	GASTROPODA	0.56	0.86	33.33						
"COLLISELLA" SCABRA	GASTROPODA	0.28	0.68	16.67						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.28	0.68	16.67						
RED CRUSTS	RHODOPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD. %			MEAN % STD. %			MEAN % STD. %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
ENDOCLADIA MURICATA	[RHODOPHYTA	75.56	20.38	100.00						
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA	19.44	11.04	100.00						
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	16.67	6.15	100.00						
MYTILUS CALIFORNIANUS	[PELECYPODA	14.72	12.62	100.00						
G.A.T.G.O.R.	[CHLOROPHYTA	6.39	6.33	66.67						
BALANUS GLANDULA	[CIRRIPEDIA	5.56	2.28	100.00						
PELVETIA-PELVETIOPSIS SP(P).	[PHAEOPHYTA	4.72	9.10	66.67						
CORALLINA VANCOUVERIENSIS	[RHODOPHYTA	4.17	1.75	100.00						
GELIDIUM PUSILLUM	[RHODOPHYTA	3.33	3.33	66.67						
GLADOPHORA COLUMBIANA	[CHLOROPHYTA	2.50	1.75	83.33						
MASTOCARPUS JARDINII	[RHODOPHYTA	2.50	3.29	50.00						
ULVA CALIFORNICA	[CHLOROPHYTA	1.94	4.76	16.67						
RED CRUSTS	[RHODOPHYTA	1.67	2.79	33.33						
IRIDAEA FLACCIDA	[RHODOPHYTA	1.39	1.64	50.00						
ULVA LOBATA	[CHLOROPHYTA	0.83	0.91	50.00						
CHAETOMORPHA LINUM	[CHLOROPHYTA	0.83	1.39	33.33						
LASAEA SUBVIRIDIS	[PELECYPODA	0.83	1.39	33.33						
POLICIPES POLYMERUS	[CIRRIPEDIA	0.83	1.39	33.33						
CHTHAMALUS SP(P).	[CIRRIPEDIA	0.56	0.86	33.33						
LOTTIA PELTA	[GASTROPODA	0.56	0.86	33.33						
BOSSIELLA PLUMOSA	[RHODOPHYTA	0.56	1.36	16.67						
PORPHYRA PERFORATA	[RHODOPHYTA	0.56	1.36	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %			MEAN %			MEAN %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ANALIPUS JAPONICUS	PHAEOPHYTA	0.28	0.68	16.67						
CERAMIVM EATONIANUM	RHODOPHYTA	0.28	0.68	16.67						
IRIDAEA HETEROCARPA	RHODOPHYTA	0.28	0.68	16.67						
LEPIDOCHITONA DENTIENS	POLYPLACOPHORA	0.28	0.68	16.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.28	0.68	16.67						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	75.28	10.56	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	9.44	8.99	83.33						
BALANUS GLANDULA	CIRRIPEDIA	3.06	3.71	66.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	2.78	2.02	33.33						
HESPEROPHYCUS HARVEYANUS	PHAEOPHYTA	1.94	3.23	50.00						
RED CRUSTS	RHODOPHYTA	1.94	3.40	33.33						
G.A.T.G.O.R.	CHLOROPHYTA	1.11	2.72	16.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.33	1.39	33.33						
CHTHAMALUS SP.(P).	CIRRIPEDIA	0.56	0.86	33.33						
PORPHYRA PERFORATA	RHODOPHYTA	0.56	0.86	33.33						
ULVA LOBATA	CHLOROPHYTA	0.56	0.86	33.33						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.56	1.36	16.67						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.28	0.68	16.67						
GIGARTINA CANALICULATA	RHODOPHYTA	0.28	0.68	16.67						
MOPALIA MUSCOSA	POLYPLACOPHORA	0.28	0.68	16.67						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	48.33	22.26	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	30.00	11.11	100.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	23.33	13.37	100.00						
PETROCELIS SP(P).	RHODOPHYTA	20.56	6.64	100.00						
GIGARTINA LEPTORHYNCHOS	RHODOPHYTA	3.39	6.33	66.67						
GELIDIUM COULTERI	RHODOPHYTA	2.73	4.55	50.00						
TEGULA FUNEBRALIS	GASTROPODA	1.39	1.64	50.00						
CLADOPHORA COLYMBIANA	CHLOROPHYTA	0.33	0.9	50.00						
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	0.56	0.36	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.56	0.36	33.33						
TRIDAEA FLACCIDA	RHODOPHYTA	0.56	1.36	16.67						
"COLLISELLA" SCABRA	GASTROPODA	0.28	0.68	16.67						
FUCUS DISTICHUS	PHAEOPHYTA	0.28	0.68	16.67						
HESPEROPHYCUS HARVEYANUS	PHAEOPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/HASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED				SPRING CLEARED				FALL CLEARED			
		MEAN %		STD. %		MEAN %		STD. %		MEAN %		STD. %	
		COVER	DEV.	% FREQ		COVER	DEV.	% FREQ		COVER	DEV.	% FREQ	
ENDOCLADIA MURICATA	[RHODOPHYTA	61.48	30.92	94.44									
HASTOCARPUS PAPILLATUS	[RHODOPHYTA	26.67	20.90	100.00									
PETROCELIS SP(P).	[RHODOPHYTA	11.11	14.28	55.56									
FUCUS DISTICHUS	[PHAEOPHYTA	6.94	12.40	38.89									
BALANUS GLANDULA	[CIRRIPEDIA	5.28	9.20	55.56									
GLADOPHORA COLUMBIANA	[CHLOROPHYTA	4.17	7.42	38.89									
CRUSTOSE CORALLINES, UNIDENT	[RHODOPHYTA	3.96	4.56	50.00									
ANTHOPELURA ELEGANTISSIMA	[ANTHOZOA	3.22	5.91	16.67									
PELVETIA-PELVETOPSIS SP(P).	[PHAEOPHYTA	1.94	3.54	27.78									
MYTILUS CALIFORNIANUS	[PELECYPODA	1.76	6.25	22.22									
CHTHAMALUS SP(P).	[CIRRIPEDIA	1.48	4.48	11.11		0.19	0.79	5.56					
REGULA FUNEBRALIS	[GASTROPODA	1.30	1.57	50.00		0.74	1.54	22.22					
LITTORINA SCUTULATA/PLENA	[GASTROPODA	1.30	1.67	44.44		1.48	3.18	38.89					
ANALIPUS JAPONICUS	[PHAEOPHYTA	1.02	2.57	22.22									
GELIDIUM PUSILLUM	[RHODOPHYTA	0.83	1.92	22.22									
HESPEROPHYCUS HARVEYANUS	[PHAEOPHYTA	0.74	2.23	11.11									
IRIDAEA FLACCIDA	[RHODOPHYTA	0.65	1.53	16.67									
CORALLINA VANCOUVERIENSIS	[RHODOPHYTA	0.65	2.07	11.11									
PORPHYRA SP(P).	[RHODOPHYTA	0.56	1.71	11.11		0.46	1.36	9.59					
CHAETOMORPHA LINUM	[CHLOROPHYTA	0.56	1.62	16.67									
PORPHYRA PERFORATA	[RHODOPHYTA	0.46	1.25	16.67									
HALOSACCION GLANDIFORME	[RHODOPHYTA	0.46	1.38	11.11									

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
"COLLISELLA" SCABRA	GASTROPODA	0.37	0.71	22.22						
G.A.T.G.O.R.	CHLOROPHYTA	0.37	0.91	16.67	6.94	17.93	27.78			
ULVA CALIFORNICA	CHLOROPHYTA	0.37	1.22	11.11	0.46	1.96	5.56			
LOTTIA DIGITALIS	GASTROPODA	0.28	0.64	16.67						
RED CRUSTS	RHODOPHYTA	0.23	0.64	16.67						
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.19	0.54	11.11						
LOTTIA Pelta	GASTROPODA	0.19	0.54	11.11	0.09	0.39	5.56			
RHODOGLOSSUM AFFINE	RHODOPHYTA	0.19	0.54	11.11						
GELIDIUM COULTERI G. PUSILLUM	RHODOPHYTA	0.19	0.79	5.56						
ASAEA SUBVIRIDIS	PELECYPODA	0.19	0.79	5.56						
MASTOCARPUS JARDINII	RHODOPHYTA	0.19	0.79	5.56						
BOSSELLA PLUMOSA	RHODOPHYTA	0.09	0.39	5.56						
CIRAMILUM EATONIANUM	RHODOPHYTA	0.09	0.39	5.56						
DIATOMS, UNIDENT.	CHRYCOPHYTA	0.09	0.39	5.56	9.34	22.78	22.22			
GELIDIUM COULTERI	RHODOPHYTA	0.09	0.39	5.56						
GREEN BLADES	CHLOROPHYTA	0.09	0.39	5.56						
NUCELLA EMARGINATA	GASTROPODA	0.09	0.39	5.56						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.09	0.39	5.56						
RALFSIA SP(P).	PHAEOPHYTA	0.09	0.39	5.56						
SEMIBALANUS CARICUSUS	CIRRIPIEDIA	0.09	0.39	5.56						
BLUE GREEN ALGAE, UNIDENT.	CYANOPHYTA				5.09	14.85	11.11			
BROWN BLADES	PHAEOPHYTA				0.28	1.18	5.56			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		[MEAN %] STD. [			[MEAN %] STD. [			[MEAN %] STD. [		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
DIPTERA-DIPTERA LARVAE	INSECTA	1	1	1	0.28	0.86	11.11	1	1	1
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA	1	1	1	0.93	3.93	5.56	1	1	1
ENTEROMORPHA LINZA	CHLOROPHYTA	1	1	1	1.30	3.77	16.67	1	1	1
ENTEROMORPHA SP(P).	CHLOROPHYTA	1	1	1	2.41	7.19	16.67	1	1	1
PHOLADS, UNIDENT.	PELECYPODA	1	1	1	0.09	0.39	5.56	1	1	1
UROSPORA PENICILLIFORMIS	CHLOROPHYTA	1	1	1	13.33	30.91	16.67	1	1	1

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	[RHODOPHYTA	60.00	3.33	100.00						
FUCUS DISTICHUS	[PHAEOPHYTA	16.67	15.28	100.00						
PETROCELIS SP(P).	[RHODOPHYTA	15.56	26.94	33.33						
CLADOPHORA COLUMBIANA	[CHLOROPHYTA	14.44	13.47	66.67						
ANTHOPELURA ELEGANTISSIMA	[ANTHOZOA	10.56	11.82	66.67						
BALANUS GLANDULA	[CIRRIPIEDIA	10.56	18.28	33.33						
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	9.44	7.70	100.00						
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA	0.78	3.47	66.67						
REGULA FINEBRALIS	[GASTROPODA	2.22	0.96	100.00						
G.A.T.G.O.R.	[CHLOROPHYTA	1.11	0.96	66.67	13.89	24.06	33.33			
CORALLINA VANCOUVERIENSIS	[RHODOPHYTA	1.11	1.92	33.33						
LITTORINA SCUTULATA/PLENA	[GASTROPODA	1.11	1.92	33.33	2.22	0.96	100.00			
CRYPTOSIPHONIA WOODII	[RHODOPHYTA	0.56	0.96	33.33						
GELIDIUM COULTERI	[RHODOPHYTA	0.56	0.96	33.33						
LOTTIA DIGITALIS	[GASTROPODA	0.56	0.96	33.33						
LOTTIA Pelta	[GASTROPODA	0.56	0.96	33.33						
SEMIBALANUS CARIOSUS	[CIRRIPIEDIA	0.56	0.96	33.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
ENDOCLADIA MURICATA	RHODOPHYTA	71.67	15.90	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	17.22	13.57	100.00						
PETROCELIS SP(P).	RHODOPHYTA	17.22	16.19	100.00						
FUCUS DISTICHUS	PHAEOPHYTA	8.33	11.67	66.67						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	6.67	6.01	66.67						
BALANUS GLANDULA	CIRRIPEDIA	5.56	2.55	100.00						
PELVETIA-PELVETIOPSIS SP(P)	PHAEOPHYTA	3.33	2.89	66.67						
PORPHYRA SP(P).	RHODOPHYTA	3.33	3.33	66.67						
CHTHAMALUS SP(P).	CIRRIPEDIA	3.33	5.77	33.33						
HALOSACCION GLANDIFORME	RHODOPHYTA	2.78	2.55	66.67						
ANTHOPLEURA ELEGANTISSIMA	INTHOICA	2.78	4.81	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	2.78	4.81	33.33						
IRIDAEA FLACCIDA	RHODOPHYTA	1.67	2.89	33.33						
REGULA FUNEBRALIS	GASTROPODA	1.67	2.89	33.33						
MASTOCARPUS JARDINII	RHODOPHYTA	1.11	1.92	33.33						
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.96	33.33						
ANALIPUS JAPONICUS	PHAEOPHYTA	0.56	0.96	33.33						
BOSSIELLA PLUMOSA	RHODOPHYTA	0.56	0.96	33.33						
CERAMUM EATONIANUM	RHODOPHYTA	0.56	0.96	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.56	0.96	33.33						
GREEN BLADES	CHLOROPHYTA	0.56	0.96	33.33						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.56	0.96	33.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
LOTTIA PELTA	GASTROPODA	0.56	0.96	33.33	0.56	0.96	33.33			
NUCELLA EMARGINATA	GASTROPODA	0.56	0.96	33.33						
DIATOMS, UNIDENT.	CHRYSTOPHYTA				42.22	40.18	66.67			
DIPTERA-DIPTERA LARVAE	INSECTA				0.56	0.96	33.33			
ENTEROMORPHA LINZA	CHLOROPHYTA				7.78	6.74	100.00			
G.A.T.G.O.R.	CHLOROPHYTA				0.56	0.96	33.33			
ULOSPORA PENICILLIFORMIS	CHLOROPHYTA				10.10	10.93	100.00			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MASTOCARPUS PAPILLATUS	RHODOPHYTA	38.89	5.85	100.00						
PETROCELIS SP(P).	RHODOPHYTA	18.33	1.67	100.00						
FUCUS DISTICHUS	PHAEOPHYTA	16.67	20.82	66.67						
BALANUS GLANDULA	CIRRIPIEDIA	13.89	11.10	100.00						
ANALIPUS JAPONICUS	PHAEOPHYTA	5.56	4.19	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	5.56	9.62	33.33	1.11	1.92	33.33			
ENDOCLADIA MURICATA	RHODOPHYTA	3.33	4.41	66.67						
GELIDIUM PUSILLUM	RHODOPHYTA	2.22	2.55	66.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	2.22	1.92	66.67	0.56	0.96	33.33			
"COLLISELLA" SCABRA	GASTROPODA	1.11	0.96	66.67						
MYTILUS CALIFORNIANUS	PELECYPODA	1.11	0.96	66.67						
TEGULA FUNEBRALIS	GASTROPODA	1.11	0.96	66.67	2.22	1.92	66.67			
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
PORPHYRA PERFORATA	RHODOPHYTA	0.56	0.96	33.33						
RALFSIA SP(P).	PHAEOPHYTA	0.56	0.96	33.33						
PHOLADS, UNIDENT.	PELECYPODA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	85.56	12.06	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	31.11	7.52	100.00						
MYTILUS CALIFORNIANUS	PELECYPODA	9.44	14.94	66.67						
PELVETIA-PELVETIOPSIS SP(P).	PHAECOPHYTA	8.33	3.33	100.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	3.39	3.35	100.00						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	3.33	2.39	66.67						
CHAETOMORPHA LINUM	CHLOROPHYTA	2.78	3.47	66.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	2.22	0.96	100.00	3.56	6.74	66.67			
ULVA CALIFORNICA	CHLOROPHYTA	2.22	2.55	66.67	2.78	4.81	33.33			
BALANUS GLANDULA	CIRRIPIEDIA	1.11	0.96	66.67						
RED CRUSTS	RHODOPHYTA	1.11	0.96	66.67						
G.A.T.G.O.R.	CHLOROPHYTA	1.11	1.92	33.33	3.89	6.74	33.33			
LASAEA SUBVIRIDIS	PELECYPODA	1.11	1.92	33.33						
GELIDIUM PUSILLUM	RHODOPHYTA	0.56	0.96	33.33						
PORPHYRA PERFORATA	RHODOPHYTA	0.56	0.96	33.33						
BLUE GREEN ALGAE, UNIDENT.	CYANOPHYTA				30.56	26.58	66.67			
BROWN BLADES	PHAECOPHYTA				1.67	2.39	33.33			
DIATOMS, UNIDENT.	CHRYSTOPHYTA				15.00	24.35	66.67			
DIPTERA-DIPTERA LARVAE	INSECTA				1.11	1.92	33.33			
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA				5.56	9.62	33.33			
ENTEROMORPHA SP(P).	CHLOROPHYTA				14.44	13.37	100.00			
PORPHYRA SP(P).	RHODOPHYTA				2.78	4.81	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %		STD.	MEAN %		STD.	MEAN %		STD.
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	85.56	7.70	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	6.11	1.92	100.00						
HESPEROPHYCUS HARVEYANUS	PHAEOPHYTA	4.44	4.19	66.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	1.67	2.89	33.33	0.56	0.96	33.33			
PORPHYRA PERFORATA	RHODOPHYTA	1.67	2.89	33.33						
BALANUS GLANDULA	CIRRIPIEDIA	0.56	0.96	33.33						
CHAETOMORPHA LINUM	CHLOROPHYTA	0.56	0.96	33.33						
DIATOMS, UNIDENT.	CHRYCOPHYTA	0.56	0.96	33.33						
RED CRUSTS	RHODOPHYTA	0.56	0.96	33.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	62.78	25.84	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	57.22	22.51	100.00						
PETROCELIS SP(P).	RHODOPHYTA	15.56	13.37	100.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	10.56	5.09	100.00						
TEGULA FUNEBRALIS	GASTROPODA	2.73	0.96	100.00	2.22	2.55	66.67			
IRIDAEA FLACCIDA	RHODOPHYTA	2.22	1.92	66.67						
GELIDIUM PUSILLUM	RHODOPHYTA	2.22	3.35	33.33						
RHODOGLOSSUM AFFINE	RHODOPHYTA	1.11	0.96	66.67						
GELIDIUM COULTERI/G. PUSILLUM	RHODOPHYTA	1.11	1.92	33.33						
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.96	33.33						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.56	0.96	33.33						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.56	0.96	33.33						
G.A.T.G.O.R.	CHLOROPHYTA					23.33	37.56	66.67		

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	37.59	25.60	94.44	3.33	7.23	27.78			
MASTOCARPUS PAPILLATUS	RHODOPHYTA	32.13	20.22	100.00						
FUCUS DISTICHUS	PHAEOPHYTA	10.00	18.27	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	6.67	10.87	47.22						
PETROCELIS SP(P).	RHODOPHYTA	6.30	7.34	55.56	0.09	0.39	5.56			
CLADOPHORA COLUMBIANA	CHLOROPHYTA	5.23	8.21	52.78						
BALANUS GLANDULA	CIRRIPEDIA	5.09	3.39	63.89	3.06	3.44	55.56			
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	3.70	5.71	47.22						
LITTORINA SCUTULATA/PLENA	GASTROPODA	2.82	4.08	50.00	5.37	5.79	66.67			
RHODOGLOSSUM AFFINE	RHODOPHYTA	2.78	6.56	25.00	0.19	0.79	5.56			
CHTHAMALUS SP(P).	CIRRIPEDIA	2.69	4.53	44.44	7.96	8.88	66.67			
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	1.85	3.33	33.33						
MYTILUS CALIFORNIANUS	PELECYPODA	1.62	3.57	41.67	0.09	0.39	5.56			
IRIDAEA FLACCIDA	RHODOPHYTA	1.62	3.15	36.11	0.09	0.39	5.56			
ANALIPUS JAPONICUS	PHAEOPHYTA	1.48	3.33	22.22						
GELIDIUM COULTERI	RHODOPHYTA	1.16	3.06	19.44						
RAFSIA SP(P).	PHAEOPHYTA	1.11	2.93	19.44	0.37	1.22	11.11			
GELIDIUM PUSILLUM	RHODOPHYTA	0.79	2.41	19.44						
RED CRUSTS	RHODOPHYTA	0.74	2.41	13.89						
TEGULA FUNEBRALIS	GASTROPODA	0.69	1.15	30.56	0.09	0.39	5.56			
PORPHYRA SP(P).	RHODOPHYTA	0.60	1.79	11.11	3.24	4.87	33.33			
ULVA CALIFORNICA	CHLOROPHYTA	0.56	1.87	13.89						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % COVER	STD. DEV.	% FREQ	MEAN % COVER	STD. DEV.	% FREQ	MEAN % COVER	STD. DEV.	% FREQ
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.51	2.02	11.11						
CHAETOMORPHA LINUM	CHLOROPHYTA	0.46	1.62	11.11						
G.A.T.G.O.R.	CHLOROPHYTA	0.46	1.57	11.11	2.96	7.64	16.67			
NEORHODOMELA LARIX	RHODOPHYTA	0.46	2.73	2.73						
LOTTIA DIGITALIS	GASTROPODA	0.37	0.31	19.44						
IRIDAEA HETEROCARPA	RHODOPHYTA	0.32	0.37	13.39						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.32	1.04	11.11						
HALOSACCION GLANDIFORME	RHODOPHYTA	0.23	0.33	11.11						
BOSSIELLA PLUMOSA	RHODOPHYTA	0.28	1.02	3.33						
BROWN CRUSTS	PHAEOPHYTA	0.28	1.16	5.56						
"COLLISSELLA" SCABRA	GASTROPODA	0.23	0.53	13.39	1.76	3.10	33.33			
ULVA (SP?)	CHLOROPHYTA	0.23	0.71	11.11	3.72	13.73	16.67			
GIGARTINA LEPTORHYNCHOS	RHODOPHYTA	0.19	0.66	8.33						
CERAMILUM EATONIANUM	RHODOPHYTA	0.14	0.47	3.33						
PORPHYRA PERFORATA	RHODOPHYTA	0.14	0.61	5.56	0.09	0.39	3.33			
COLPOMENIA SINUOSA	PHAEOPHYTA	0.09	0.39	5.56						
LOTTIA LIMATULA	GASTROPODA	0.09	0.39	5.56	0.09	0.39	5.56			
LOTTIA PARADIGITALIS	GASTROPODA	0.09	0.39	5.56						
LOTTIA PELTA	GASTROPODA	0.09	0.39	5.56	0.09	0.39	5.56			
NEORHODOMELA OREGONA	RHODOPHYTA	0.09	0.39	5.56						
PTEROSIPHONIA PENNATA	RHODOPHYTA	0.09	0.39	5.56						
HESPEROPHYCUS HARVEYANUS	PHAEOPHYTA	0.09	0.56	2.78						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
LASAEA SUBVIRIDIS	PELECYPODA	0.09	0.56	2.78						
POLLICIPES POLYMERUS	CIRRIPIEDIA	0.09	0.56	2.78						
BALANUS SP(P).	CIRRIPIEDIA	0.05	0.28	2.78						
COLPOMENIA PEREGRINA	PHAEOPHYTA	0.05	0.28	2.78	0.19	0.79	5.56			
CORALLINA SP(P).	RHODOPHYTA	0.05	0.28	2.78						
GIGARTINA CANALICULATA	RHODOPHYTA	0.05	0.28	2.78						
HALICLONA PERMOLLIS	PORIFERA	0.05	0.28	2.78						
LEPIDOCHITONA HARTWEGII	POLYPLACOPHORA	0.05	0.28	2.78						
LOTTIA SP(P).	GASTROPODA	0.05	0.28	2.78	0.19	0.54	11.11			
NUCELLA EMARGINATA	GASTROPODA	0.05	0.28	2.78						
MUTALLINA CALIFORNICA	POLYPLACOPHORA	0.05	0.28	2.78						
PAGURUS SP(P).	DECAPODA	0.05	0.28	2.78						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.05	0.28	2.78						
SEMIBALANUS CARICUS	CIRRIPIEDIA	0.05	0.28	2.78						
SPIROBIDS, UNIDENT.	POLYCHAETA	0.05	0.28	2.78						
BANGIA FUSCO-PURPUREA	RHODOPHYTA				0.74	3.14	5.56			
CIRRIPEDS, UNIDENT.	CIRRIPIEDIA				0.37	1.22	11.11			
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA				0.09	0.39	5.56			
DIATOMS, UNIDENT.	CHRYSOPHYTA				2.31	9.41	11.11			
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA				0.09	0.39	5.56			
ENTEROMORPHA LINZA	CHLOROPHYTA				1.02	4.32	5.56			
ENTEROMORPHA SP(P).	CHLOROPHYTA				6.39	16.53	16.67			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %			MEAN %			MEAN %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ULVA LOBATA	CHLOROPHYTA				6.02	14.54	16.67			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	28.33	5.16	100.00	7.78	12.06	66.67			
MASTOCARPUS PAPILLATUS	RHODOPHYTA	13.33	11.97	100.00						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	10.83	14.97	50.00						
FUCUS DISTICHUS	PHAECOPHYTA	10.56	14.63	50.00						
BALANUS GLANDULA	CIRRIPEDIA	7.22	8.34	33.33	1.11	1.92	33.33			
PELVETIA-PELVETIOPSIS SP(P).	PHAECOPHYTA	6.39	5.42	33.33						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	5.00	3.65	33.33						
CHTHAMALUS SP(P).	CIRRIPEDIA	4.72	7.78	33.33	7.78	4.72	100.00			
LITTORINA SCUTULATA/PLENA	GASTROPODA	3.33	5.06	66.67	8.11	5.09	100.00			
PETROCELIS SP(P).	RHODOPHYTA	3.06	7.48	16.67						
RALPSIA SP(P).	PHAECOPHYTA	2.02	4.04	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	1.94	3.06	33.33						
REGULA FUNEBRALIS	GASTROPODA	1.39	1.64	50.00						
IRIDAEA FLACCIDA	RHODOPHYTA	1.39	1.95	50.00						
MYTILUS CALIFORNIANUS	PELECYPODA	1.11	2.02	33.33						
PORPHYRA SP(P).	RHODOPHYTA	1.11	2.72	16.67						
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.86	33.33	2.22	2.55	66.67			
HALOSACCION GLANDIFORME	RHODOPHYTA	0.56	0.86	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.86	33.33						
NEORHODOMELA OREGONA	RHODOPHYTA	0.56	0.86	33.33						
BOSSIELLA PLUMOSA	RHODOPHYTA	0.56	1.36	16.67						
GELIDIUM COULTERI	RHODOPHYTA	0.56	1.36	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
BALANUS SP(P).	CIRRIPIEDIA	0.28	0.68	16.67						
IRIDAEA HETEROCARPA	RHODOPHYTA	0.28	0.68	16.67						
LOTTIA PARADIGITALIS	GASTROPODA	0.28	0.68	16.67						
LOTTIA Pelta	GASTROPODA	0.28	0.68	16.67	0.56	0.96	33.33			
PORPHYRA PERFORATA	RHODOPHYTA	0.28	0.68	16.67	0.56	0.96	33.33			
RED CRUSTS	RHODOPHYTA	0.28	0.68	16.67						
SEMIBALANUS CARICUSUS	CIRRIPIEDIA	0.28	0.68	16.67						
CIRRIPEDS, UNIDENT.	CIRRIPIEDIA				0.56	0.96	33.33			
LOTTIA SP(P).	GASTROPODA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85

SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED				SPRING CLEARED				FALL CLEARED			
		MEAN %	STD. %	COVER	% FREQ	MEAN %	STD. %	COVER	% FREQ	MEAN %	STD. %	COVER	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	50.28	9.39	100.00									
MASTOCARPUS PAPILLATUS	RHODOPHYTA	19.17	12.33	100.00									
FUCUS DISTICHUS	PHAEOPHYTA	6.39	7.70	50.00									
PETROCELIS SP(P)	RHODOPHYTA	6.39	8.26	66.67									
CHTHAMALUS SP(P)	CIRRIPEDIA	5.83	3.91	100.00	16.67	7.26	100.00						
ANTHOPLURA ELEGANTISSIMA	ANTHOZOA	5.00	5.06	66.67									
BALANUS GLANDULA	CIRRIPEDIA	5.00	2.79	100.00	6.67	1.67	100.00						
GLADOPHORA COLUMBIANA	CHLOROPHYTA	4.44	6.30	50.00									
NEORHODOMELA LARIX	RHODOPHYTA	2.78	6.30	16.67									
PELVETIA-PELVETIOPSIS SP(P)	PHAEOPHYTA	2.78	9.34	33.33									
POTPHYRA SP(P)	RHODOPHYTA	2.50	2.43	50.00	10.00	3.33	100.00						
BROWN CRUSTS	PHAEOPHYTA	1.67	2.58	33.33									
BOSSIELLA PLUMOSA	RHODOPHYTA	1.11	2.02	33.33									
HALOSACCION GLANDIFORME	RHODOPHYTA	1.11	2.02	33.33									
IRIDAEA FLACCIDA	RHODOPHYTA	1.11	1.72	33.33									
IRIDAEA HETEROCARPA	RHODOPHYTA	0.83	1.39	33.33									
LOTTIA DIGITALIS	GASTROPODA	0.83	1.39	33.33									
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.56	0.86	33.33									
ANALIPUS JAPONICUS	PHAEOPHYTA	0.56	1.36	16.67									
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.56	1.36	16.67									
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.56	1.36	16.67									
LOTTIA LIMATULA	GASTROPODA	0.28	0.68	16.67									

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA SP(P).	GASTROPODA	0.28	0.68	16.67						
TEGULA FUNEBRALIS	GASTROPODA	0.28	0.68	16.67						
DIATOMS, UNIDENT.	CHRYSTOPHYTA				13.89	22.63	66.67			
LITTORINA SCUTULATA/PLENA	GASTROPODA				0.56	0.96	33.33			
ULVA LOBATA	CHLOROPHYTA				36.11	12.95	100.00			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85

SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	50.83	8.99	100.00						
FUCUS DISTICHUS	[PHAEOPHYTA	43.06	19.42	100.00						
BALANUS GLANDULA	[CIRRIPIEDIA	13.89	15.97	66.67	7.78	2.55	100.00			
PETROCELIS SP(P).	[RHODOPHYTA	10.83	4.80	100.00						
ANALIPUS JAPONICUS	[PHAEOPHYTA	7.78	4.17	83.33						
PELVETIA-PELVETIOPSIS SP(P).	[PHAEOPHYTA	5.56	7.35	66.67						
GELIDIUM COULTERI	[RHODOPHYTA	4.72	5.91	66.67						
RALEPSIA SP(P).	[PHAEOPHYTA	4.44	4.79	33.33	2.22	2.55	66.67			
CHTHAMALUS SP(P).	[CIRRIPIEDIA	4.44	5.13	66.67	2.22	9.23	100.00			
ENDOCLADIA MURICATA	[RHODOPHYTA	2.50	2.30	66.67						
LITTORINA SCUTULATA/PLENA	[GASTROPODA	2.50	2.74	66.67	1.11	2.55	100.00			
GLADOPHORA COLUMBIANA	[CHLOROPHYTA	2.50	3.91	50.00						
CRYPTOSIPHONIA WOODII	[RHODOPHYTA	2.50	4.68	33.33						
GELIDIUM PUSILLUM	[RHODOPHYTA	2.50	5.35	33.33						
MYTILUS CALIFORNIANUS	[PELECYPODA	1.94	1.25	83.33						
TEGULA FUNEBRALIS	[GASTROPODA	1.11	1.36	50.00	0.56	0.96	33.33			
CERAMIVM EATONIANUM	[RHODOPHYTA	0.56	0.86	33.33						
COLPOMENIA SINUOSA	[PHAEOPHYTA	0.56	0.86	33.33						
LOTTIA DIGITALIS	[GASTROPODA	0.56	0.86	33.33						
PTEROSIPHONIA PENNATA	[RHODOPHYTA	0.56	0.36	33.33						
COLPOMENIA PEREGRINA	[PHAEOPHYTA	0.28	0.68	16.67	1.11	1.92	33.33			
LOTTIA PARADIGITALIS	[GASTROPODA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA Pelta	GASTROPODA	0.28	0.68	16.67						
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85

SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	[RHODOPHYTA	73.06	11.90	100.00	0.56	0.96	33.33			
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	44.72	18.12	100.00						
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA	17.50	15.41	100.00						
CLADOPHORA COLUMBIANA	[CHLOROPHYTA	10.83	7.73	100.00						
PELVETIA-PELVETICOPSIS SP(P).	[PHAECOPHYTA	7.22	7.50	33.33						
RHODOGLOSSUM AFFINE	[RHODOPHYTA	6.39	8.35	50.00						
MYTILUS CALIFORNIANUS	PELECYPODA	5.00	7.63	33.33	0.56	0.96	33.33			
LITTORINA SCUTULATA/PLENA	GASTROPODA	4.44	3.44	33.33	1.11	1.90	33.33			
ULVA CALIFORNICA	[CHLOROPHYTA	3.06	3.26	66.67						
CHAETOMORPHA LINUM	[CHLOROPHYTA	2.78	3.28	66.67						
BALANUS GLANDULA	CIRRIPIEDIA	2.50	2.53	66.67	1.67	1.67	66.67			
G.A.T.G.O.R.	[CHLOROPHYTA	2.50	3.29	50.00	17.73	10.35	100.00			
IRIDAEA FLACCIDA	[RHODOPHYTA	1.94	2.67	50.00						
ULVA SP(P).	[CHLOROPHYTA	1.11	1.36	50.00	58.33	23.09	100.00			
CORALLINA VANCOUVERIENSIS	[RHODOPHYTA	1.11	2.02	33.33						
GELIDIUM PUSILLUM	[RHODOPHYTA	1.11	2.02	33.33						
CHTHAMALUS SP(P).	[CIRRIPIEDIA	0.83	0.91	50.00	2.73	2.65	66.67			
ANALIPUS JAPONICUS	[PHAECOPHYTA	0.56	0.86	33.33						
LASAEA SUBVIRIDIS	PELECYPODA	0.56	1.36	16.67						
POLLICIPES POLYMERUS	[CIRRIPIEDIA	0.56	1.36	16.67						
"COLLISELLA" SCABRA	[GASTROPODA	0.28	0.68	16.67	0.56	0.96	33.33			
CORALLINA SP(P).	[RHODOPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA DIGITALIS	GASTROPODA	0.28	0.68	16.67						
NUCELLA EMARGINATA	GASTROPODA	0.28	0.68	16.67						
PETROCELIS SP(P).	RHODOPHYTA	0.28	0.68	16.67						
BANGIA FUSCO-PURPUREA	RHODOPHYTA				4.44	7.70	33.33			
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA				0.56	0.96	33.33			
ENTEROMORPHA LINZA	CHLOROPHYTA				6.11	10.58	33.33			
ENTEROMORPHA SP(P).	CHLOROPHYTA				33.33	22.05	100.00			
LOTTIA SP(P).	GASTROPODA				0.56	0.96	33.33			
PORPHYRA SP(P).	RHODOPHYTA				9.44	0.96	100.00			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	43.61	19.10	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	20.28	13.96	100.00						
LITTORINA SCUTULATA/PLENA	GASTROPODA	6.67	5.58	33.33	12.78	4.19	100.00			
RED CRUSTS	RHODOPHYTA	3.89	5.02	50.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.50	5.35	33.33						
BALANUS GLANDULA	CIRRIPEdia	1.94	1.95	66.67						
PETROCELIS SP(P).	RHODOPHYTA	1.94	3.06	33.33						
MYTILUS CALIFORNIANUS	PELECYPODA	1.67	2.58	50.00						
GLADOPHORA COLUMBIANA	CHLOROPHYTA	1.67	2.79	33.33						
HESPEROPHYCUS HARVEYANUS	PHAEOPHYTA	0.56	1.36	16.67						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.28	0.63	16.67						
G.A.T.G.O.R.	CHLOROPHYTA	0.28	0.68	16.67						
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	0.28	0.68	16.67						
ULVA CALIFORNICA	CHLOROPHYTA	0.28	0.68	16.67						
ULVA SP(P).	CHLOROPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MASTOCARPUS PAPILLATUS	RHODOPHYTA	44.44	19.40	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	27.78	22.77	100.00	11.67	10.14	66.67			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	17.50	11.09	100.00						
PETROCELIS SP(P).	RHODOPHYTA	15.28	8.53	100.00	0.56	0.96	33.33			
RHODOGLOSSUM AFFINE	RHODOPHYTA	10.28	10.13	100.00	1.11	1.92	33.33			
IRIDAEA FLACCIDA	RHODOPHYTA	5.23	5.72	83.33	0.56	0.96	33.33			
GELIDIUM COULTERI	RHODOPHYTA	1.67	2.79	33.33						
TEGULA FLYNNERII	GASTROPODA	1.39	1.05	66.67						
ANTHOPELRA ELEGANTISSIMA	ANTHOZOA	1.11	1.36	50.00						
GELIDIUM PUSILLUM	RHODOPHYTA	1.11	1.36	50.00						
GIGARTINA LEPTORHYNCHOS	RHODOPHYTA	1.11	1.36	50.00						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	1.11	2.02	33.33						
IRIDAEA HETEROCARPA	RHODOPHYTA	0.83	1.39	33.33						
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.36	33.33	7.78	1.92	100.00			
PORPHYRA PERFORATA	RHODOPHYTA	0.56	1.36	16.67						
CERAMIMUM EATONIANUM	RHODOPHYTA	0.28	0.68	16.67						
CHTHAMALUS SP(P).	CIRRIPEDIA	0.28	0.68	16.67	3.89	6.74	33.33			
GIGARTINA CANALICULATA	RHODOPHYTA	0.28	0.68	16.67						
MALICLONA PERMOLLIS	PORIFERA	0.28	0.68	16.67						
LEPIDOCHITONA HARTWEGII	POLYPLACOPHORA	0.28	0.68	16.67						
LOTTIA LIMATULA	GASTROPODA	0.28	0.68	16.67	0.56	0.96	33.33			
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD.			MEAN % STD.			MEAN % STD.		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
PAGURUS SP(P).	DECAPODA	0.28	0.68	16.67						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.28	0.68	16.67						
RED CRUSTS	RHODOPHYTA	0.28	0.68	16.67						
SPIROBIDS, UNIDENT.	POLYCHAETA	0.28	0.68	16.67						
BALANUS GLANDULA	CIRRIPIEDIA				1.11	1.92	33.33			
CIRRIPEDS, UNIDENT.	CIRRIPIEDIA				1.67	2.89	33.33			
LITTORINA SCUTULATA/PLENA	GASTROPODA				0.86	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % COVER	STD. DEV.	% FREQ	MEAN % COVER	STD. DEV.	% FREQ	MEAN % COVER	STD. DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	49.35	28.99	94.44				0.28	1.18	5.56
MASTOCARPUS PAPILLATUS	RHODOPHYTA	22.31	15.16	94.44						
FUCUS DISTICHUS	PHAEOPHYTA	10.74	18.88	38.89						
BALANUS GLANDULA	CIRRIPIEDIA	6.76	12.36	61.11				0.09	0.39	5.56
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	3.46	9.37	55.56						
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	4.44	10.10	44.44						
PETROCELIS SP(P).	RHODOPHYTA	3.89	5.33	44.44						
RED CRUSTS	RHODOPHYTA	2.96	4.39	44.44						
CHTHAMALLUS SP(P).	CIRRIPIEDIA	2.59	4.65	33.33				0.28	0.36	11.11
GLADOPHORA COLUMBIANA	CHLOROPHYTA	2.50	4.55	33.33						
ANTHOPELERA ELEGANTISSIMA	ANTHOZEA	1.48	4.71	22.22						
LITTORINA SCUTULATA/PLENA	GASTROPODA	1.11	2.06	27.78				1.33	0.27	44.44
RALFSIA SP(P).	PHAEOPHYTA	1.11	2.97	16.67						
ANALIPUS JAPONICUS	PHAEOPHYTA	1.02	2.57	22.22						
ODONTHALIA FLOCCOSA	RHODOPHYTA	1.02	3.29	11.11						
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.93	2.16	22.22						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.83	2.82	11.11						
TEGULA FUNEBRALIS	GASTROPODA	0.74	1.43	27.78				0.40	0.25	16.67
HESPEROPHYCUS HARVEYANUS	PHAEOPHYTA	0.74	1.54	22.22						
IRIDAEA FLACCIDA	RHODOPHYTA	0.65	1.63	16.67						
MYTILUS CALIFORNIANUS	PELECYPODA	0.56	1.40	16.67						
G.A.T.G.O.R.	CHLOROPHYTA	0.46	1.25	16.67				0.93	3.93	3.56

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD. %	FREQ	MEAN %	STD. %	FREQ	MEAN %	STD. %	FREQ
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
GELIDIUM PUSILLUM	RHODOPHYTA	0.37	0.71	22.22						
PTEROCLADIA CAPILLACEA	RHODOPHYTA	0.37	1.57	5.56						
LOTTIA DIGITALIS	GASTROPODA	0.28	0.64	16.67				0.09	0.39	5.56
GELIDIUM COULTERI	RHODOPHYTA	0.28	0.36	11.11						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.28	1.18	5.56				0.09	0.39	5.56
ULVA CALIFORNICA	CHLOROPHYTA	0.28	1.18	5.56						
CHAETOMORPHA LINUM	CHLOROPHYTA	0.19	0.34	11.11						
HALOSACCION GLANDIFORME	RHODOPHYTA	0.19	0.79	5.56						
"COLLISELLA" SCABRA	GASTROPODA	0.09	0.39	5.56						
CERAMIMUM EATONIANUM	RHODOPHYTA	0.09	0.39	5.56						
DIATOMS, UNIDENT.	CHRYSOPHYTA	0.09	0.39	5.56				27.26	34.37	11.11
GREEN BLADES	CHLOROPHYTA	0.09	0.39	5.56				27.26	34.37	11.11
IRIDAEA HETEROCARPA	RHODOPHYTA	0.09	0.39	5.56						
LOTTIA LIMATULA	GASTROPODA	0.09	0.39	5.56						
NEMERTEANS, UNIDENT.	NEMERTEA	0.09	0.39	5.56						
NUCELLA EMARGINATA	GASTROPODA	0.09	0.39	5.56						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.09	0.39	5.56						
PAGURUS SP(P).	DECAPODA	0.09	0.39	5.56						
PHAEOSTROPHION IRREGULARE	PHAEOPHYTA	0.09	0.39	5.56						
PHYLLOSPADIX SCOLLERI	SPERMATOPHYTA	0.09	0.39	5.56						
PORIFERANS, UNIDENT.	PORIFERA	0.09	0.39	5.56						
PTEROCLADIA CALOGLOSSOIDES	RHODOPHYTA	0.09	0.39	5.56						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %			MEAN %			MEAN %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
BANGIA FUSCO-PURPUREA	RHODOPHYTA	1	1	1	1	1	1	0.19	0.79	5.56
BROWN CRUSTS	PHAECOPHYTA	1	1	1	1	1	1	0.28	0.86	11.11
COLPOMENIA SP(P).	PHAECOPHYTA	1	1	1	1	1	1	0.37	1.57	5.56
DIPTERA-DIPTERA LARVAE	INSECTA	1	1	1	1	1	1	0.19	0.54	11.11
PORPHYRA SP(P).	RHODOPHYTA	1	1	1	1	1	1	0.28	0.86	11.11
ULVA SP(P).	CHLOROPHYTA	1	1	1	1	1	1	0.09	0.39	5.56
ULVOPORA WORMSKJOLDII	CHLOROPHYTA	1	1	1	1	1	1	0.19	0.54	11.11

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD. %		MEAN %	STD. %		MEAN %	STD. %	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	50.56	11.71	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	17.78	27.95	66.67						
FUCUS DISTICHUS	PHAECOPHYTA	13.89	14.17	66.67						
PELVETIA-PELVETICOPSIS SP(P).	PHAECOPHYTA	13.89	22.63	66.67						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	9.44	2.55	100.00						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	8.33	10.14	100.00						
GLADOPHORA COLUMBIANA	CHLOROPHYTA	5.00	7.25	66.67						
RED CRUSTS	RHODOPHYTA	2.22	2.55	66.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.22	3.85	33.33						
MYTILUS CALIFORNIANUS	PELECYPODA	1.67	2.89	33.33						
LOTIA DIGITALIS	GASTROPODA	1.11	0.96	66.67				0.56	0.96	33.33
CRYPTOSIPHONIA WOODII	RHODOPHYTA	1.11	1.92	33.33						
LITTORINA SCUTULATA/PLENA	GASTROPODA	1.11	1.92	33.33				1.67	1.67	33.33
TEGULA FUNEBRALIS	GASTROPODA	1.11	1.92	33.33						
CHTHAMALUS SP(P).	CIRRIPIEDIA	0.56	0.96	33.33						
NEMERTEANS, UNIDENT.	NEMERTEA	0.56	0.96	33.33						
PHYLLOSPADIX SCOULERI	SPERMATOPHYTA	0.56	0.96	33.33						
PTEROCLADIA CALOGLOSSOIDES	RHODOPHYTA	0.56	0.96	33.33						
PORPHYRA SP(P).	RHODOPHYTA							0.56	0.96	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
ENDOCLADIA MURICATA	[RHODOPHYTA	37.22	26.68	100.00						
FUCUS DISTICHUS	[PHAEOPHYTA	16.11	26.48	66.67						
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	11.67	5.77	100.00						
CHTHAMALUS SP(P).	[CIRRIPEDIA	7.22	6.74	66.67				1.67	1.67	66.67
CLADOPHORA COLUMBIANA	[CHLOROPHYTA	7.22	6.74	66.67						
PETROCELIS SP(P).	[RHODOPHYTA	5.56	5.35	66.67						
CORALLINA VANCOUVERIENSIS	[RHODOPHYTA	5.00	6.31	66.67						
RED CRUSTS	[RHODOPHYTA	5.00	7.26	66.67						
BALANUS GLANDULA	[CIRRIPEDIA	4.44	6.31	66.67				2.56	2.56	66.67
PELVETIA-PELVETIOPSIS SP(P).	[PHAEOPHYTA	3.33	3.33	66.67						
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA	2.78	3.47	66.67						
GOGNATHALIA FLOCCOSA	[RHODOPHYTA	1.67	2.89	33.33						
HALOSACCION GLANDIFORME	[RHODOPHYTA	1.11	1.92	33.33						
RALFSIA SP(P).	[PHAEOPHYTA	1.11	1.92	33.33						
"COLLISELLA" SCABRA	[GASTROPODA	0.56	0.96	33.33						
ANALIPUS JAPONICUS	[PHAEOPHYTA	0.56	0.96	33.33						
DIATOMS, UNIDENT.	[CHRYSTOPHYTA	0.56	0.96	33.33				56.67	47.28	100.00
G.A.T.G.O.R.	[CHLOROPHYTA	0.56	0.96	33.33						
IRIDAEA HETEROCARPA	[RHODOPHYTA	0.56	0.96	33.33						
NUCELLA EMARGINATA	[GASTROPODA	0.56	0.96	33.33						
PORIFERANS, UNIDENT.	[PORIFERA	0.56	0.96	33.33						
TEGULA FUNEBRALIS	[GASTROPODA	0.56	0.96	33.33						

M.W.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
BANGIA FUSCO-PURPUREA	RHODOPHYTA							1.11	1.92	33.33
DIPTERA-DIPTERA LARVAE	INSECTA							0.56	0.96	33.33
PORPHYRA SP(P).	RHODOPHYTA							21.67	19.22	100.00
UROSPORA WORMSKJOLDII	CHLOROPHYTA							17.22	21.43	100.00

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
MASTOCARPUS PAPILLATUS	RHODOPHYTA	40.56	13.37	100.00						
FUCUS DISTICHUS	PHAECOPHYTA	34.44	26.58	100.00						
BALANUS GLANDULA	CIRRIPEDIA	13.89	8.22	100.00						
ANALIPUS JAPONICUS	PHAECOPHYTA	5.56	4.19	100.00						
CRYPTOSIPHONIA WOODII	RHODOPHYTA	4.44	3.47	100.00						
PETROCELIS SP(P).	RHODOPHYTA	4.44	3.35	66.67						
DOGNATHIA FLOCCOSA	RHODOPHYTA	4.44	3.33	33.33						
CHTHAMALLUS SP(P).	CIRRIPEDIA	3.39	5.74	33.33						
PALESIA SP(P).	PHAECOPHYTA	3.39	5.74	33.33						
RED CRUSTS	RHODOPHYTA	3.39	5.74	33.33						
ENDOCLADIA MURICATA	RHODOPHYTA	2.78	3.47	66.67						
PTEROCALDIA CAPILLACEA	RHODOPHYTA	2.22	3.35	33.33						
MYTILUS CALIFORNIANUS	PELECYPODA	1.67	1.67	66.67						
GELIDIUM COULTERI	RHODOPHYTA	1.11	1.92	33.33						
CERAMIMUM EATONIANUM	RHODOPHYTA	0.56	0.96	33.33						
GELIDIUM PUSILLUM	RHODOPHYTA	0.56	0.96	33.33						
PAGURUS SP(P).	DECAPODA	0.56	0.96	33.33						
PELVETIA-PELVETIOPSIS SP(P).	PHAECOPHYTA	0.56	0.96	33.33						
PHAECOSTROPHION IRREGULARE	PHAECOPHYTA	0.56	0.96	33.33						
TEGULA FUNEBRALIS	GASTROPODA	0.56	0.96	33.33				0.56	0.96	33.33
DIATOMS, UNIDENT.	CHRYSTOPHYTA							40.00	4.44	100.00
LITTORINA SCUTULATA/PLENA	GASTROPODA							2.22	2.96	100.00

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
PORPHYRA SP(P).	RHODOPHYTA							0.56	0.96	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	83.33	8.66	100.00				1.67	2.89	33.33
MASTOCARPUS PAPILLATUS	RHODOPHYTA	38.89	6.31	100.00						
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	8.89	9.77	100.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	4.44	0.96	100.00						
TRIDAEA FLACCIDA	RHODOPHYTA	3.33	1.92	100.00						
BALANUS GLANDULA	CIRRIPEdia	3.33	2.39	66.67						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.78	0.55	66.67						
RED CRUSTS	RHODOPHYTA	1.67	2.39	33.33						
ULVA CALIFORNICA	CHLOROPHYTA	1.67	2.39	33.33						
CHAETOMORPHA LINUM	CHLOROPHYTA	1.11	0.96	66.67						
DIAPHANUS SP(P).	CIRRIPEdia	0.56	0.96	33.33						
G.A.T.G.O.R.	CHLOROPHYTA	0.56	0.96	33.33						
GELIDIUM PUSILLUM	RHODOPHYTA	0.56	0.96	33.33						
GREEN BLADES	CHLOROPHYTA	0.56	0.96	33.33				0.22	0.44	33.33
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
DIATOMS, UNIDENT.	CHRYSOPHYTA							71.11	4.31	100.00
DIPTERA-DIPTERA LARVAE	INSECTA							0.56	0.96	33.33
PORPHYRA SP(P).	RHODOPHYTA							1.67	1.67	66.67
ULVA SP(P).	CHLOROPHYTA							0.56	0.96	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	67.78	10.72	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	11.11	12.73	66.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	5.00	1.67	100.00				7.22	4.19	100.00
RED CRUSTS	RHODOPHYTA	3.39	6.74	33.33						
HESPEROPHYCUS HARVEYANUS	PHAECOPHYTA	3.33	1.67	100.00						
BALANUS GLANDULA	CIRRIPEDIA	1.11	0.96	66.67						
CRUSTOSE CORALLINES, UNIDENT	RHODOPHYTA	1.11	1.92	33.33						
PETROCELIS SP(P)	RHODOPHYTA	0.56	0.96	33.33						
BROWN CRUSTS	PHAECOPHYTA							1.67	1.67	66.67
COLPOMENIA SP(P)	PHAECOPHYTA							3.22	3.85	33.33
GLUTINOUS RL	CHLOROPHYTA							5.56	4.60	33.33
PORPHYRA SP(P)	RHODOPHYTA							1.67	1.67	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	54.44	18.36	100.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	22.22	13.88	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	22.22	3.85	100.00						
PETROCELIS SP(P).	RHODOPHYTA	12.78	2.55	100.00						
CHTHAMALUS SP(P).	CIRRIPEDIA	3.33	3.77	33.33						
TEGULA FUNEBRALIS	GASTROPODA	2.22	2.55	66.67				2.22	2.55	66.67
G.A.T.G.O.R.	CHLOROPHYTA	1.67	2.89	33.33						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	1.67	2.89	33.33				1.67	2.89	33.33
RALPSIA SP(P).	PHAEOPHYTA	1.67	2.89	33.33						
GELIDIUM PUSILLUM	RHODOPHYTA	1.11	0.96	66.67						
HEPEROPHYCUS HARVEYANUS	PHAEOPHYTA	1.11	1.92	33.33						
RED CRUSTS	RHODOPHYTA	1.11	1.92	33.33						
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
GELIDIUM COULTERI	RHODOPHYTA	0.56	0.96	33.33						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.56	0.96	33.33						
LOTTIA LIMATULA	GASTROPODA	0.56	0.96	33.33						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.56	0.96	33.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	48.80	27.26	100.00	11.02	14.81	72.22	0.83	2.44	11.11
MASTOCARPUS PAPILLATUS	RHODOPHYTA	15.56	17.65	88.89	0.74	1.74	22.22	2.22	4.68	22.22
FUCUS DISTICHUS	PHAEOPHYTA	10.93	17.45	38.89	0.09	0.39	5.56			
BALANUS GLANDULA	CIRRIPEDIA	3.19	8.48	61.11	6.94	11.18	44.44	2.13	4.88	27.78
PETROCELIS SP(P).	RHODOPHYTA	4.91	6.30	55.56	0.23	0.36	11.11			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	4.07	6.62	33.33	0.09	0.39	5.56	0.65	1.42	22.22
PELVETIA-PELVETIOPSIS SP(P)	PHAEOPHYTA	3.43	7.42	33.33						
RALPSIA SP(P).	PHAEOPHYTA	3.33	6.97	33.33	0.41	0.00	33.33	0.16	0.74	
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	2.87	9.73	22.22						
ANALIPUS JAPONICUS	PHAEOPHYTA	2.04	5.05	16.67	0.09	0.39	5.56			
CATHAMALLUS SP(P).	CIRRIPEDIA	1.07	3.26	33.33	10.00	12.06	33.33	2.14	4.20	33.33
GLADOPHORA COLUMBIANA	CHLOROPHYTA	1.39	4.69	22.22	0.65	1.63	16.67			
HESPEROPHYCUS HARVEYANUS	PHAEOPHYTA	0.93	2.81	16.67						
IRIDAEA FLACCIDA	RHODOPHYTA	0.93	2.69	11.11						
MYTILUS CALIFORNIANUS	PELECYPODA	0.93	1.18	38.89	0.09	0.39	5.56			
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.33	2.00	16.67						
RED CRUSTS	RHODOPHYTA	0.74	1.74	22.22						
GELIDIUM PUSILLUM	RHODOPHYTA	0.65	2.37	11.11						
TEGULA FUNEBRALIS	GASTROPODA	0.36	0.81	33.33	0.19	0.34	11.11	0.56	1.74	22.22
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.46	0.96	22.22	0.37	1.22	11.11			
CORALLINA OFFICINALIS	RHODOPHYTA	0.46	1.96	5.56						
ULVA SP(P).	CHLOROPHYTA	0.46	1.96	5.56	9.91	23.29	16.67	15.65	35.73	22.22

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %		STD. %	MEAN %		STD. %	MEAN %		STD. %
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
LITTORINA DIGITALIS	GASTROPODA	0.46	0.77	27.78	0.19	0.54	11.11			
NEORHODOMELA LARIX	RHODOPHYTA	0.37	1.57	5.56						
GELIDIUM COULTERI	RHODOPHYTA	0.28	0.64	16.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.28	0.64	16.67	1.48	2.55	33.33	2.22	2.36	33.33
GIGARTINA CANALICULATA	RHODOPHYTA	0.28	1.18	5.56						
"COLLISELLA" SCABRA	GASTROPODA	0.09	0.39	5.56	0.74	1.17	33.33	0.09	0.39	5.56
BOSSIELLA PLUMOSA	RHODOPHYTA	0.09	0.39	5.56						
LITTORINA PECTEN	GASTROPODA	0.09	0.39	5.56						
LITTORINA SPIRIFERA	GASTROPODA	0.09	0.39	5.56	0.09	0.39	5.56			
MUCILLA EMARGINATA	GASTROPODA	0.09	0.39	5.56						
PETROLIUM THES CINCTIPES	DECAPODA	0.09	0.39	5.56						
PORPHYRA PERFORATA	RHODOPHYTA	0.09	0.39	5.56	0.23	0.36	11.11	0.23	0.36	11.11
PRIGNITIS LANCEOLATA	RHODOPHYTA	0.09	0.39	5.56						
RHODOGLOSSUM AFFINE	RHODOPHYTA	0.09	0.39	5.56						
SEMIBALANUS CARIOSUS	CIRRIPEDIA	0.09	0.39	5.56						
ULVA CALIFORNICA	CHLOROPHYTA	0.09	0.39	5.56						
BROWN CRUSTS	PHAEOPHYTA				0.09	0.39	5.56			
CIRRIPIDS, UNIDENT.	CIRRIPEDIA				0.09	0.39	5.56			
COLPOMENIA SINUOSA	PHAEOPHYTA							0.09	0.39	5.56
DIATOMS, UNIDENT.	CHRYCOPHYTA				0.23	1.18	5.56	0.33	2.22	16.67
ENTEROMORPHA LINZA	CHLOROPHYTA							0.09	0.39	5.56
G.A.T.G.O.R.	CHLOROPHYTA				1.85	4.46	16.67	0.19	0.79	5.56

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
GIGARTINA LEPTORHYNCHOS	RHODOPHYTA							0.19	0.79	5.56
GREEN FILAMENTS	CHLOROPHYTA				0.37	1.57	5.56	0.09	0.39	5.56
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA				0.09	0.39	5.56			
PORPHYRA LANCEOLATA	RHODOPHYTA				0.56	1.28	22.22	1.35	4.57	16.67
PORPHYRA SP(P)	RHODOPHYTA							1.35	4.57	5.56
RED BLADES	RHODOPHYTA							0.09	0.39	5.56
SCYTOSIPHON LOMENTARIA	PHAEOPHYTA				0.46	1.33	11.11			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	35.56	6.74	100.00	35.56	15.75	100.00			
FUCUS DISTICHUS	PHAEOPHYTA	20.00	19.22	66.67						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	14.44	23.59	66.67						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	6.67	11.55	33.33				9.44	5.39	100.00
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	6.67	10.63	33.33						
BALANUS GLANDULA	CIRRIPEIDIA	5.56	5.09	66.67						
PETROCELIS SP(P).	RHODOPHYTA	5.56	4.41	66.67						
CHTHAMALLUS SP(P).	CIRRIPEIDIA	3.33	4.41	66.67	5.00	3.33	100.00			
NEORHODOMELA LARIX	RHODOPHYTA	2.22	3.35	33.33						
RAFFESIA SP(P).	PHAEOPHYTA	1.67	2.89	33.33						
TEGULA FLAEBRILIS	GASTROPODA	1.11	0.96	66.67				0.56		100.00
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.11	1.92	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.56	0.96	33.33						
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
MYTILUS CALIFORNIANUS	PELECYPODA	0.56	0.96	33.33						
NUCELLA EMARGINATA	GASTROPODA	0.56	0.96	33.33						
RED CRUSTS	RHODOPHYTA	0.56	0.96	33.33						
"COLLISELLA" SCABRA	GASTROPODA				0.56	0.96	33.33			
LITTORINA SCUTULATA/PLENA	GASTROPODA							0.56	0.96	100.00
PORPHYRA PERFORATA	RHODOPHYTA							1.67	0.39	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD. %	% FREQ	MEAN %	STD. %	% FREQ	MEAN %	STD. %	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	48.89	12.51	100.00	0.56	0.96	33.33			
PETROCELIS SP(P).	RHODOPHYTA	8.89	9.18	66.67						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	7.78	10.58	100.00						
FUCUS DISTICHUS	PHAECOPHYTA	6.11	5.85	66.67						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	3.56	2.55	100.00	0.56	0.96	33.33			
BALANUS GLANDULA	CIRRIPEDIA	3.00	7.26	66.67	17.22	8.55	100.00	11.67	6.31	100.00
PELVETIA-PELVETIOPSIS SP(P).	PHAECOPHYTA	4.44	7.70	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	3.33	3.47	66.67						
CHTHAMALUS SP(P).	CIRRIPEDIA	1.67	1.67	66.67	26.67	13.32	100.00	4.44	4.19	66.67
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	1.67	2.39	33.33						
MYTILUS CALIFORNIANUS	PELECYPODA	1.11	0.96	66.67						
RAUPISIA SP(P).	PHAECOPHYTA	1.11	1.92	33.33	0.56	0.96	33.33			
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.96	33.33	1.11	1.92	33.33	0.56	0.96	33.33
BOSSIELLA PLUMOSA	RHODOPHYTA	0.56	0.96	33.33						
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33	0.56	0.96	33.33			
LOTTIA Pelta	GASTROPODA	0.56	0.96	33.33						
PETROLISTHES CINCTIPES	DECAPODA	0.56	0.96	33.33						
PORPHYRA PERFORATA	RHODOPHYTA	0.56	0.96	33.33	1.11	1.92	33.33	7.78	6.31	66.67
PRIONITIS LANCEDATA	RHODOPHYTA	0.56	0.96	33.33						
SEMIBALANUS CARICUSUS	CIRRIPEDIA	0.56	0.96	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA				0.56	0.96	33.33	0.56	0.96	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
DIATOMS, UNIDENT.	CHRYSTOPHYTA							2.22	3.85	33.33
GREEN FILAMENTS	CHLOROPHYTA							0.56	0.96	33.33
LOTTIA SP(P).	GASTROPODA				0.56	0.96	33.33			
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA				0.56	0.96	33.33			
PORPHYRA SP(P).	RHODOPHYTA							0.56	0.96	33.33
TEGULA FUNEBRALIS	GASTROPODA				0.56	0.96	33.33			
ULVA SP(P).	CHLOROPHYTA							0.56	0.96	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/HASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
FUCUS DISTICHUS	PHAEOPHYTA	39.44	16.44	100.00	0.56	0.96	33.33			
BALANUS GLANDULA	CIRRIPEDIA	17.78	14.37	100.00	22.78	13.88	100.00	1.11	0.96	66.67
HASTOCARPUS PAPILLATUS	RHODOPHYTA	17.78	8.22	100.00	2.78	3.47	66.67			
ANALIPUS JAPONICUS	PHAEOPHYTA	12.22	5.36	100.00	0.56	0.96	33.33			
PETROCELIS SP(P).	RHODOPHYTA	1.11	7.32	100.00	1.57	1.57	66.67			
ENDOCLADIA MURICATA	RHODOPHYTA	7.22	5.85	100.00	2.78	2.55	66.67			
RALPSIA SP(P).	PHAEOPHYTA	5.56	5.09	66.67	7.22	5.85	100.00	2.22	3.33	100.00
CHTHAMALLUS SP(P).	CIRRIPEDIA	3.89	6.74	33.33	15.10	7.32	100.00	1.57	1.57	66.67
CRYPTOSIPHONIA WOODII	RHODOPHYTA	1.57	1.57	66.67	2.22	2.55	66.67			
MYTILUS CALIFORNIANUS	PELECYPODA	1.57	1.57	66.67	0.56	0.96	33.33			
GELIDIUM TOLTERI	RHODOPHYTA	1.11	0.96	66.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	1.11	0.96	66.67	3.89	2.55	100.00	3.89	1.57	100.00
LOTTIA DIGITALIS	GASTROPODA	1.11	0.96	66.67						
TEGULA FUNEBRALIS	GASTROPODA	1.11	0.96	66.67	0.56	0.96	33.33	0.00	0.00	0.00
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	0.56	0.96	33.33						
CLADOPHORA COLUMBIANA	CHLOROPHYTA				3.33	2.89	66.67			
COLPOMENIA SINUOSA	PHAEOPHYTA							2.22	2.22	33.33
PORPHYRA PERFORATA	RHODOPHYTA							0.22	3.33	33.33
RED BLADES	RHODOPHYTA							0.56	0.96	33.33

M.W.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD. %		MEAN %	STD. %		MEAN %	STD. %	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	[RHODOPHYTA	70.00	19.65	100.00	1.67	2.89	33.33			
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	41.67	29.06	100.00						
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA	15.56	6.74	100.00						
PELVETIA-PELVETIOPSIS SP(P).	[PHAEOPHYTA	9.44	13.47	100.00						
IRIDAEA FLACCIDA	[RHODOPHYTA	5.56	4.31	66.67						
GELIDIUM PUSILLUM	[RHODOPHYTA	3.33	5.77	33.33						
CORALLINA OFFICINALIS	[RHODOPHYTA	2.78	4.81	33.33						
ULVA SP(P).	[CHLOROPHYTA	2.78	4.31	33.33	0.44	3.38	100.00	10.00	4.47	100.00
BALANUS GLANDULA	[CIRRIPEDIA	2.22	0.96	100.00	0.56	0.96	33.33			
MYTILUS CALIFORNIANUS	[PELECYPODA	1.67	1.67	66.67						
GELIDIUM COULTERI	[RHODOPHYTA	0.56	0.96	33.33						
LOTTIA SP(P).	[GASTROPODA	0.56	0.96	33.33						
PETROCELIS SP(P).	[RHODOPHYTA	0.56	0.96	33.33						
RED CRUSTS	[RHODOPHYTA	0.56	0.96	33.33						
"COLLISELLA" SCABRA	[GASTROPODA				1.67	1.67	66.67			
CNTHAMALUS SP(P).	[CIRRIPEDIA				1.11	0.96	66.67			
DIATOMS, UNIDENT.	[CHRYSOPHYTA							1.67	0.39	33.33
ENTEROMORPHA LINZA	[CHLOROPHYTA							0.56	0.96	33.33
G.A.T.G.D.R.	[CHLOROPHYTA				3.69	7.70	66.67	1.11	1.10	33.33
GREEN FILAMENTS	[CHLOROPHYTA				2.22	3.85	33.33			
PORPHYRA LANCEOLATA	[RHODOPHYTA				1.11	0.96	66.67	5.56	4.31	66.67

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=PT. SIERRA NEVAJA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %			MEAN %			MEAN %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	85.00	1.67	100.00	14.44	16.36	100.00	5.00	4.41	66.67
MASTOCARPUS PAPILLATUS	RHODOPHYTA	8.33	6.01	100.00				3.89	6.74	33.33
HESPEROPHYCUS HARVEYANUS	PHAECOPHYTA	5.56	5.36	100.00						
RED CRUSTS	RHODOPHYTA	3.33	3.33	66.67						
BALANUS GLANDULA	CIRRIPEIDIA	0.56	0.96	33.33	1.11	1.92	33.33			
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.56	0.96	33.33	5.00	2.89	100.00	6.57	3.33	100.00
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
PETROCELLIS (P.P.)	RHODOPHYTA	0.56	0.96	33.33						
ULVA CALIFORNICA	CHLOROPHYTA	0.56	0.96	33.33						
BROWN CRUSTS	PHAECOPHYTA				0.56	0.96	33.33			
CHAMALUS (P.P.)	CIRRIPEIDIA				1.11	1.92	33.33	1.11	1.92	33.33
CIRRIPEDS, UNIDENT.	CIRRIPEIDIA				0.56	0.96	33.33			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA							1.67	2.89	33.33
DIATOMS, UNIDENT.	CHRYSOPHYTA				1.67	2.89	33.33	1.11	1.92	33.33
G.A.T.G.O.R.	CHLOROPHYTA				2.22	3.61	33.33			
PORPHYRA LANCEOLATA	RHODOPHYTA				2.22	2.89	66.67	5.56	3.62	33.33
PORPHYRA PERFORATA	RHODOPHYTA				0.56	0.96	33.33			
SCYTOSIPHON LOMENTARIA	PHAECOPHYTA				2.78	2.55	66.67			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	(RHODOPHYTA	46.11	13.57	100.00	11.11	3.35	100.00			
MASTOCARPUS PAPILLATUS	(RHODOPHYTA	13.33	13.23	100.00	1.11	1.92	33.33			
RALFSIA,SP(P).	(PHAEDOPHYTA	11.67	10.41	66.67	6.67	10.14	66.67			
CRUSTOSE CORALLINES, UNIDENT.	(RHODOPHYTA	3.33	2.39	100.00				1.67	1.67	66.67
PETROCELIS SP(P)	(RHODOPHYTA	3.33	3.77	33.33						
GIGARTINA CANALICULATA	(RHODOPHYTA	1.67	2.39	33.33						
REGULI FUNEBRALIS	(GASTROPCDA	1.11	0.96	66.67				1.66	0.96	33.33
ANTHOPLEURA ELEGANTISSIMA	(ANTHOLDA	1.11	1.32	33.33						
CHTHAMALLUS SP(P).	(GIRRIPIEDIA	0.56	0.96	33.33	11.11	16.36	100.00			
CLADOPHORA COLUMBIANA	(CHLOROPHYTA	0.56	0.96	33.33	0.56	0.96	33.33			
DELTOIDUM PUSILLUM	(RHODOPHYTA	0.56	0.96	33.33						
RHODOGLOSSUM AFFINE	(RHODOPHYTA	0.56	0.96	33.33						
"JULISELLA" SCABRA	(GASTROPCDA				1.11	0.96	66.67			
GIGARTINA LEPTORHYNCHOS	(RHODOPHYTA							1.11		33.33
LITTORINA SCUTULATA/PLENA	(GASTROPCDA							0.56		33.33
LOTTIA DIGITALIS	(GASTROPCDA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
ENDOCLADIA MURICATA	[RHODOPHYTA	41.30	25.31	94.44	21.30	23.22	88.89	6.20	16.04	27.78
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	18.89	15.82	94.44	18.70	24.05	77.78	30.46	31.72	77.78
FUCUS DISTICHUS	[PHAEOPHYTA	15.28	23.86	50.00	2.69	5.31	33.33	0.28	0.86	11.11
PETROCELIS SP(P).	[RHODOPHYTA	7.87	9.09	61.11	1.11	2.49	22.22	0.92	1.92	27.78
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA	5.55	9.09	55.56						
CLADOPHORA COLUMBIANA	[CHLOROPHYTA	5.55	6.34	61.11	2.22	5.15	16.67	0.28	0.28	11.11
BALANUS GLANDULA	[CIRRIPEDIA	2.15	4.84	50.00	7.12	9.68	55.56	0.22	11.67	50.00
PELVETIA-PELVETIOPSIS SP(P)	[PHAEOPHYTA	3.06	3.92	55.56	4.63	10.10	22.22	0.11	0.11	
ANTHOPELUPA ELEGANTISSIMA	[ANTHOZOA	2.22	4.38	33.33	0.23	0.64	16.67	0.29	0.39	3.33
RHODOGLOSSUM AFFINE	[RHODOPHYTA	2.22	7.92	11.11	0.29	0.29	5.56			
RED CRUSTS	[RHODOPHYTA	2.04	4.77	16.67						
ANALIPUS JAPONICUS	[PHAEOPHYTA	1.48	2.79	27.78	0.37	1.37	5.56	0.27	1.00	
RALFSIA SP(P).	[PHAEOPHYTA	1.39	3.63	27.78	1.67	3.88	22.22	0.93	2.07	27.78
G.A.T.G.O.R.	[CHLOROPHYTA	1.39	3.63	16.67	4.31	13.73	16.67	0.46	2.27	
IRIDAEA FLACCIDA	[RHODOPHYTA	1.30	3.50	33.33	1.20	2.27	27.78	0.46	1.00	11.11
GELIDIUM PUSILLUM	[RHODOPHYTA	1.11	2.74	16.67						
LITTORINA SCUTULATA/PLENA	[GASTROPODA	1.11	4.32	11.11	1.11	3.52	22.22	0.74	1.00	16.67
CORALLINA VANCOUVERIENSIS	[RHODOPHYTA	0.93	2.08	22.22				0.29	0.39	3.33
GELIDIUM COULTERI	[RHODOPHYTA	0.74	2.75	11.11						
CHTHAMALUS SP(P).	[CIRRIPEDIA	0.65	1.16	27.78	6.10	10.11	44.44	0.73	3.67	22.22
CRYPTOSIPHONIA WOODII	[RHODOPHYTA	0.65	1.91	11.11	0.46	1.96	5.56			
ODONTHALIA FLOCCOSA	[RHODOPHYTA	0.46	1.60	11.11						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/HASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED				SPRING CLEARED				FALL CLEARED			
		MEAN %		STD.		MEAN %		STD.		MEAN %		STD.	
		COVER	DEV.	% FREQ	% FREQ	COVER	DEV.	% FREQ	% FREQ	COVER	DEV.	% FREQ	% FREQ
REGULA FUNEBRALIS	GASTROPODA	0.37	0.71	22.22	0.19	0.54	11.11	1.39	2.30	33.33			
MYTILUS CALIFORNIANUS	PELECYPODA	0.37	0.91	16.67									
PORPHYRA LANCEOLATA	RHODOPHYTA	0.37	1.22	11.11	1.11	3.08	16.67	4.63	9.32	27.78			
CYLINDROCARPUS RUGOSUS	PHAECOPHYTA	0.19	0.54	11.11	0.19	0.54	11.11	2.04	4.77	5.57			
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.19	0.54	11.11									
MOULISELLA SCABRA	GASTROPODA	0.09	0.39	5.56	1.57	2.94	27.78	3.33	11.11	27.78			
BOSSIELLA PLUMOSA	RHODOPHYTA	0.09	0.39	5.56	0.19	0.79	5.56						
LEPIDOCHITONA DENTENS	POLYPLACOPHORA	0.09	0.39	5.56									
LOTTIA LEMATULA	GASTROPODA	0.09	0.39	5.56									
LOTTIA Pelta	GASTROPODA	0.09	0.39	5.56	0.09	0.39	5.56						
FAULUS CR. P.	DECAPODA	0.09	0.39	5.56									
SEMIBALANUS CARICUS	CIRRIPEDIA	0.09	0.39	5.56									
TONICELLA LINEATA	POLYPLACOPHORA	0.09	0.39	5.56									
ULVA LOBATA	CHLOROPHYTA	0.09	0.39	5.56	0.14	2.75	11.11	11.11	27.78				
ULVA SP(P)	CHLOROPHYTA	0.09	0.39	5.56	0.27	1.57	5.56						
CHAETOMORPHA LINUM	CHLOROPHYTA				0.36	2.36	5.56	0.29	1.11	7.78			
COLPOMENIA SINUOSA	PHAECOPHYTA				0.29	0.39	5.56	0.29	0.39	5.56			
CUMAGLOIA ANDERSONII	RHODOPHYTA				0.29	0.39	5.56	1.57	4.77	5.56			
ENTEROMORPHA SP(P)	CHLOROPHYTA				0.29	0.39	5.56	4.35	20.43	11.11			
GIGARTINA LEPTORHYNCHOS	RHODOPHYTA				0.09	0.39	5.56	0.29	0.39	5.56			
HALOSACCION GLANDIFORME	RHODOPHYTA				0.19	0.79	5.56	0.29	0.79	5.56			
IRIDAEA CORDATA	RHODOPHYTA				0.19	0.79	5.56						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD.			MEAN % STD.			MEAN % STD.		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA DIGITALIS	GASTROPODA				0.09	0.39	5.56	0.09	0.39	5.56
PISASTER OCHRACEUS	ASTEROIDEA				0.09	0.39	5.56			
PORPHYRA PERFORATA	RHODOPHYTA				0.37	0.91	16.67	1.39	3.09	27.78
PTEROSIPHONIA BIPINNATA	RHODOPHYTA							0.09	0.39	5.56
UROSPORA PENICILLIFORMIS	CHLOROPHYTA				0.09	0.39	5.56	0.09	0.39	5.56

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD. %		MEAN %	STD. %		MEAN %	STD. %	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENDOCLADIA MURICATA	[RHODOPHYTA	49.44	12.29	100.00	56.11	25.29	100.00	0.56	0.96	33.33
FUCUS DISTICHUS	[PHAEOPHYTA	21.67	30.32	100.00	0.56	0.96	33.33			
ANTHOPEURA ELEGANTISSIMA	[ANTHOZOA	7.73	10.72	66.67	1.11	0.96	66.67	0.56	0.96	33.33
CLADOPHORA COLUMBIANA	[CHLOROPHYTA	5.56	5.85	66.67	7.73	13.47	33.33			
PELVETIA-PELVETIOPSIS SP.(P)	[PHAEOPHYTA	3.33	4.44	66.67	0.22	3.33	33.33			
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	4.44	3.47	100.00	6.67	7.05	100.00	37.73	33.33	66.67
CRUSTACEA CORALLINES, UNIDENT.	[RHODOPHYTA	3.33	4.44	66.67						
RETROCEUS SPID	[RHODOPHYTA	3.33	4.44	66.67						
GOONTHALIA FLOCCOSA	[RHODOPHYTA	0.22	3.33	33.33						
BALANUS GLANDULA	[CIRRIPEDIA	1.67	1.67	66.67	0.56	0.96	33.33	11.11	10.13	66.67
ORTHANALUS SP.(P)	[CIRRIPEDIA	1.11	1.11	33.33						
BOSSIELLA FLUMOSA	[RHODOPHYTA	0.56	0.96	33.33						
GELIDIUM SCULTERI	[RHODOPHYTA	0.56	0.96	33.33						
LITTORINA SCUTULATA/PLENA	[GASTROPODA	0.56	0.96	33.33						
SEMIBALANUS CARIOSUS	[CIRRIPEDIA	0.56	0.96	33.33						
TEGULA FUNEBRALIS	[GASTROPODA	0.56	0.96	33.33						
COLPOMENIA SINUOSA	[PHAEOPHYTA				0.56	0.96	33.33			
PORPHYRA LANCEOLATA	[RHODOPHYTA							1.67	0.96	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
ENDOCLADIA MURICATA	(RHODOPHYTA	50.56	22.38	100.00	3.89	5.36	66.67			
FUCUS DISTICHUS	(PHAEOPHYTA	16.67	12.58	100.00	2.78	3.47	66.67			
MASTOCARPUS PAPILLATUS	(RHODOPHYTA	12.73	6.94	100.00	28.33	16.41	100.00	13.39	9.18	100.00
CLADOPHORA COLUMBIANA	(CHLOROPHYTA	12.22	8.39	100.00				1.11	1.92	33.33
PETROCELIS SP(P).	(RHODOPHYTA	10.00	4.47	100.00	0.73	3.47	66.67	0.36	0.96	33.33
CORALLINA VANCOUVERIENSIS	(RHODOPHYTA	3.39	4.13	66.67						
PELVETIA-PELVETIOPSIS SP(P).	(PHAEOPHYTA	0.73	4.37	33.33	0.00	0.00	33.33			
ANTHOPLEURA ELEGANTISSIMA	(ANTHOPHYTA	0.73	3.47	66.67	0.36	0.96	33.33			
CRIDAEN FLACCIDA	(RHODOPHYTA	1.11	0.96	66.67				3.33	4.47	66.67
CRUSTACE CORALLINES, UNIDENT.	(RHODOPHYTA	1.11	1.92	33.33						
NOTULIDELLA SCABRA	(GASTROPODA	0.36	0.96	33.33	1.67	0.89	33.33	0.73	0.96	33.33
ANALIPUS JAPONICUS	(PHAEOPHYTA	0.36	0.96	33.33	0.00	0.00	33.33			
CHTHAMALUS SP(P).	(CIRRIPEDIA	0.56	0.96	33.33	28.33	11.67	100.00	10.75	7.14	100.00
LOTTIA Pelta	(GASTROPODA	0.56	0.96	33.33	0.56	0.96	33.33			
MYTILUS CALIFORNIANUS	(PELECYPODA	0.56	0.96	33.33						
ODONTHALIA FLOCCOSA	(RHODOPHYTA	0.56	0.96	33.33						
PAGURUS SP(P).	(DECAPODA	0.56	0.96	33.33						
PORPHYRA LANCEOLATA	(RHODOPHYTA	0.56	0.96	33.33	6.11	3.33	66.67	7.75	6.13	66.67
RALFSIA SP(P).	(PHAEOPHYTA	0.56	0.96	33.33	0.00	0.00	66.67			
TEGULA FUNEBRALIS	(GASTROPODA	0.56	0.96	33.33				1.11	1.92	33.33
TONICELLA LINEATA	(POLYPLACOPHORA	0.56	0.96	33.33						
ULVA SP(P).	(CHLOROPHYTA	0.56	0.96	33.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %			MEAN %			MEAN %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
BALANUS GLANDULA	CIRRIPIEDIA	10.56	11.34	100.00	14.44	14.94	100.00			
BOSSIELLA PLUMOSA	RHODOPHYTA	1.11	1.92	33.33						
HALOSACCION GLANDIFORME	RHODOPHYTA	1.11	1.92	33.33	1.11	1.92	33.33			
IRIDAEA CORDATA	RHODOPHYTA	1.11	1.92	33.33						
LITTORINA COUTULATA/PLENA	GASTROPODA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
PIRATER DOHRACUS	ASTEROIDEA	0.56	0.96	33.33						
POPHYRA PERFORATA	RHODOPHYTA									
RHODOLIOSUM AFFINE	RHODOPHYTA	0.56	0.96	33.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
FUCUS DISTICHUS	PHAEOPHYTA	53.33	21.79	100.00	12.78	5.85	100.00	1.67	1.67	66.67
MASTOCARPUS PAPILLATUS	RHODOPHYTA	36.11	13.88	100.00	62.22	17.66	100.00	79.44	14.56	100.00
PETROCELIS SP(P)	RHODOPHYTA	13.89	11.34	100.00	1.11	1.92	33.33	0.56	0.96	33.33
BALANUS GLANDULA	CIRRIPIEDIA	11.57	3.33	100.00	22.78	6.94	100.00	23.89	10.33	100.00
ANALIPUS JAPONICUS	PHAEOPHYTA	7.22	0.36	100.00				0.56	1.96	10.00
RALEPSIA SP(P)	PHAEOPHYTA	5.56	3.00	66.67	3.33	5.77	33.33	3.33	5.77	33.33
CLADOPHYTA COLUMBIANA	CHLOROPHYTA	0.56	0.34	66.67	1.11	1.30	33.33	0.56	0.36	33.33
RED CRUSTS	RHODOPHYTA	3.33	3.56	33.33						
ENDOCLADIA MURICATA	RHODOPHYTA	4.44	5.8	66.67	10.00	2.89	100.00			
CRYPTOSIPHONIA WOODII	RHODOPHYTA	3.69	3.47	66.67	2.78	4.81	33.33			
GELIDIUM COLLITERI	RHODOPHYTA	3.33	5.94	33.33						
DI-AMALUS SP(P)	CIRRIPIEDIA	1.67	1.67	66.67	11.57	3.67	100.00			
PELVETIA-PELVETIOPSIS SP(P)	PHAEOPHYTA	1.67	1.67	66.67	1.11	1.92	33.33			
GELIDIUM PUSILLUM	RHODOPHYTA	1.11	1.92	33.33						
MYTILUS CALIFORNIANUS	PELECYPODA	1.11	1.92	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.56	0.96	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.56	0.96	33.33						
IRIDAEA FLACCIDA	RHODOPHYTA	0.56	0.96	33.33	2.22	1.30	66.67			
TEGULA FUNEBRALIS	GASTROPODA	0.56	0.96	33.33	0.56	0.96	33.33	0.78	3.47	66.67
COLPOMENIA SINUOSA	PHAEOPHYTA							0.56	0.96	33.33
LITTORINA SCUTULATA/PLENA	GASTROPODA				1.11	0.96	66.67	2.22	1.92	66.67
LOTTIA DIGITALIS	GASTROPODA							0.56	0.96	33.33

M.M.S. INTERTIDAL SPECIES--RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD. %			MEAN % STD. %			MEAN % STD. %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
PTEROSIPHONIA BIPINNATA	RHODOPHYTA							0.56	0.96	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED				SPRING CLEARED				FALL CLEARED			
		MEAN %	STD. %	% FREQ	COVER	MEAN %	STD. %	% FREQ	COVER	MEAN %	STD. %	% FREQ	COVER
ENDOCLADIA MURICATA	[RHODOPHYTA	72.78	9.18	100.00	11.11	9.62	66.67						
MASTOCARPUS PAPILLATUS	[RHODOPHYTA	34.44	15.40	100.00	1.67	1.67	66.67	0.56	0.96	33.33			
RHODOGLOSSUM AFFINE	[RHODOPHYTA	13.33	17.64	66.67									
GLADOPHORA COLUMBIANA	[CHLOROPHYTA	10.00	2.39	100.00	4.44	7.70	33.33						
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA	8.89	6.31	100.00									
PELVETIA-PELVETIOPSIS SPIR.	[PHAECOPHYTA	7.78	4.31	100.00	21.67	17.56	100.00						
GELIDUM PUSILLUM	[RHODOPHYTA	5.56	4.31	66.67									
CRIDAEA FLUIDIDA	[RHODOPHYTA	5.56	3.32	66.67									
BALANUS GLANDULA	[CIRRIPEDIA	5.00	3.33	100.00	5.00	5.00	66.67						
SP. 12, D.O.R.	[CHLOROPHYTA	3.39	4.19	66.67	27.78	25.46	66.67	3.33	4.19	66.67			
RED SPOTS	[RHODOPHYTA	3.33	5.77	33.33									
CYLINDROCARPUS RUCCUS	[PHAECOPHYTA	1.11	0.76	66.67	0.56	0.76	33.33						
ANALIPUS JAPONICUS	[PHAECOPHYTA	1.11	1.92	33.33									
CORALLINA VANCOLVERIENSIS	[RHODOPHYTA	0.56	0.96	33.33									
MYTILUS CALIFORNIANUS	[PELECYPODA	0.56	0.96	33.33									
ULVA LOBATA	[CHLOROPHYTA	0.56	0.96	33.33	4.44	6.31	66.67	66.67	14.29	33.33			
"COLLISELLA" SCABRA	[GASTROPODA				4.44	4.19	66.67	0.56	0.96	33.33			
CHAETOMORPHA LINUM	[CHLOROPHYTA				3.33	5.77	33.33	0.56	0.96	33.33			
CHTHAMALUS SP(P).	[CIRRIPEDIA				2.78	3.47	66.67						
ENTEROMORPHA SP(P).	[CHLOROPHYTA				0.56	0.96	33.33	16.11	21.75	100.00			
PORPHYRA LANCEOLATA	[RHODOPHYTA				0.56	0.96	33.33	8.33	7.06	66.67			
PORPHYRA PERFORATA	[RHODOPHYTA				0.56	0.96	33.33	8.33	6.74	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD.			MEAN % STD.			MEAN % STD.		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ULVA SP(P).	CHLOROPHYTA				2.22	3.85	33.33			
UROSPORA PENICILLIFORMIS	CHLOROPHYTA				0.56	0.96	33.33	26.11	21.75	100.00

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/HASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED				SPRING CLEARED				FALL CLEARED			
		MEAN %		STD. %		MEAN %		STD. %		MEAN %		STD. %	
		COVER	DEV.	%	FREQ	COVER	DEV.	%	FREQ	COVER	DEV.	%	FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	22.78	17.02	100.00	1	7.78	9.18	100.00	1	34.44	26.99	100.00	1
LITTORINA SCUTULATA/PLENA	GASTROPODA	6.11	10.58	33.33	5.00	8.66	33.33	2.22	3.85	33.33			
G.A.T.G.O.R.	CHLOROPHYTA	4.44	7.70	33.33	1.11	1.92	33.33						
RED CRUSTS	RHODOPHYTA	3.39	6.74	33.33									
HASTOCARPUS PAPILLATUS	RHODOPHYTA	2.22	1.92	33.33									
BALANUS GLANDULA	CIRRIPEDIA	0.56	0.56	33.33	3.33	6.74	33.33	0.56	0.56	33.33			
CHTHAMALUS SP. 1	CIRRIPEDIA	0.56	0.56	33.33									
PELVETIA-PELVETIOPSIS SP. 1	PHAEOPHYTA	0.56	0.56	33.33									
POPHYRA PERFORATA	RHODOPHYTA					1.11	1.92	33.33	2.22	3.47	33.33		

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(ENDOCLADIA/MASTOCARPUS PAPILLATUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED				SPRING CLEARED				FALL CLEARED			
		MEAN %	STD.	COVER	DEV. % FREQ	MEAN %	STD.	COVER	DEV. % FREQ	MEAN %	STD.	COVER	DEV. % FREQ
ENDOCLADIA MURICATA	RHODOPHYTA	47.78	6.94	100.00	38.89	19.32	100.00	2.22	3.85	33.33			
MASTOCARPUS PAPILLATUS	RHODOPHYTA	23.33	3.33	100.00	13.33	8.82	100.00	37.22	23.33	100.00			
PETROCELIS SPIR.	RHODOPHYTA	23.00	6.21	100.00	2.78	4.31	33.33	2.22	3.85	33.33			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	19.44	15.75	100.00									
ANTHOPLEURA ELEGANTISSIMA	ANTHOCIDA	0.72	0.35	66.67									
RALFSIA SPIR.	PHAEOPHYTA	0.02	0.55	66.67	4.44	7.70	33.33	0.02	0.07	66.67			
PORPHYRA LANCEOLATA	RHODOPHYTA	1.27	0.39	33.33									
HRACMATOPOMA CALIFORNICA	POLYDACTYL	0.01	0.14	66.67									
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.56	0.36	33.33									
TRIDAEA FLACCIDA	RHODOPHYTA	0.56	0.36	33.33	3.33	4.19	66.67	0.56	0.36	33.33			
LEPIDODONTINA DEVIENS	POLYCLADOPHORA	0.56	0.36	33.33									
LOTIA LIMATULA	GASTROPODA	0.56	0.36	33.33									
PELVETIA-PELVETIOPSIS SPIR.	PHAEOPHYTA	0.56	0.36	33.33	0.56	0.36	33.33						
TEGULA FLNEBRALIS	GASTROPODA	0.56	0.36	33.33	0.56	0.36	33.33	0.02					
"COLLISELLA" SCABRA	GASTROPODA				3.33	4.44							
CORALLINA VANCOUVERIENSIS	RHODOPHYTA												
CUMAGLOIA ANDERSONII	RHODOPHYTA				0.56	0.36	33.33	6.67	11.11	33.33			
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA				0.56	0.36	33.33	0.02	0.07	66.67			
GIGARTINA LEPTORHYNCHOS	RHODOPHYTA				0.56	0.36	33.33	0.01	0.06	66.67			
PORPHYRA PERFORATA	RHODOPHYTA				0.56	0.36	33.33	0.56	0.36	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
COVER	DEV.				COVER	DEV.		COVER	DEV.	
MYTILUS CALIFORNIANUS	PELECYPODA	67.64	26.80	100.00						
BALANUS GLANDULA	CIRRIPEDIA	11.02	12.45	86.11						
BOSSIELLA PLUMOSA	RHODOPHYTA	8.38	12.11	41.67						
CHTHAMALUS SP.(P)	CIRRIPEDIA	5.19	8.76	69.44						
ENDOCALADIA MURICATA	RHODOPHYTA	4.77	5.40	63.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	4.77	6.99	52.78						
POLIDIPIES POLYMERUS	CIRRIPEDIA	4.04	6.02	55.56						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	4.03	3.31	27.27						
TETRACLITA RUBESCENS	CIRRIPEDIA	2.45	5.16	22.22						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.85	4.33	30.56						
TETROCELLIS SP.(P)	RHODOPHYTA	1.76	3.69	19.44						
MUTUALINA CALIFORNIENSIS	POLYPLACOPHORA	1.11	2.03	27.78						
ANALIPUS JAPONICUS	PHAEOPHYTA	0.93	1.93	25.00						
SEMIBALANUS CARIOSUS	CIRRIPEDIA	0.83	2.24	19.44						
"COLLISELLA" SCABRA	GASTROPODA	0.79	1.62	27.78						
LOTTIA DIGITALIS	GASTROPODA	0.74	1.57	22.22						
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	0.60	1.65	19.44						
DIATOMS, UNIDENT.	CHRYSTOPHYTA	0.56	1.32	16.67						
PLEOCAMILLUM VIOLACEUM	RHODOPHYTA	0.56	2.32	5.56						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.51	1.37	16.67						
RALESIA SP.(P)	PHAEOPHYTA	0.51	1.98	3.33						
ULVA LOBATA	CHLOROPHYTA	0.51	2.28	8.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
HALICHONDRIA PANICEA	PORIFERA	0.46	1.98	5.56						
TEGULA FUNEBRALIS	GASTROPODA	0.42	0.83	22.22						
ULVA CALIFORNICA	CHLOROPHYTA	0.37	1.60	5.56						
G.A.T.G.O.R.	CHLOROPHYTA	0.37	1.33	3.33						
RED CRUSTS	RHODOPHYTA	0.32	1.13	11.11						
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.23	0.71	11.11						
PORPHYRA SP(P)	RHODOPHYTA	0.23	0.90	3.33						
GELIDIUM PUSTILLUM	RHODOPHYTA	0.19	0.37	5.56						
PORPHYRA PERFORATA	RHODOPHYTA	0.14	0.47	3.33						
RED BLADES	RHODOPHYTA	0.14	0.47	3.33						
TRIDAEA FLACCIDA	RHODOPHYTA	0.14	0.61	3.33						
LOTTIA PARADIGITALIS	GASTROPODA	0.14	0.61	5.56						
PRIGNITIS LANCEOLATA	RHODOPHYTA	0.14	0.83	2.78						
RHODOGLOSSUM AFFINE	RHODOPHYTA	0.14	0.83	2.78						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.09	0.39	5.56						
BLUE GREEN ALGAE, UNIDENT.	CYANOPHYTA	0.05	0.28	2.78						
CALLIARTHRON TUBERCULOSUM	RHODOPHYTA	0.05	0.28	2.78						
CORALLINA SP(P)	RHODOPHYTA	0.05	0.28	2.78						
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA	0.05	0.28	2.78						
FISSURELLA VOLCANO	GASTROPODA	0.05	0.28	2.78						
HALICLONA PERMOLLIS	PORIFERA	0.05	0.28	2.78						
LEPTASTERIAS SP(P)	ASTEROIDEA	0.05	0.28	2.78						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA ASMI	GASTROPODA	0.05	0.28	2.78						
NEMERTEANS, UNIDENT.	NEMERTEA	0.05	0.28	2.78						
PELVETIA-PELVETIOPSIS SP(P)	PHAEOPHYTA	0.05	0.28	2.78						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=KIBESILLAM HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	93.33	5.27	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	5.56	6.38	66.67						
CHTHAMALUS SP(P)	CIRRIPIEDIA	4.72	5.10	66.67						
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	3.89	4.17	83.33						
ENCODADIA MURICATA	RHODOPHYTA	3.33	2.77	33.33						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	3.33	3.71	50.00						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	3.33	3.12	66.67						
TEGULA FUNEBRALIS	GASTROPODA	1.39	0.68	33.33						
PEROPHYRA SP(P)	RHODOPHYTA	1.39	1.45	50.00						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.28	0.68	16.67						
LITTORINA DIGITALIS	GASTROPODA	0.28	0.68	16.67						
PETROCELLIS SP(P)	RHODOPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % COVER	STD. % DEV.	% FREQ	MEAN % COVER	STD. % DEV.	% FREQ	MEAN % COVER	STD. % DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	86.39	7.99	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	12.22	5.24	100.00						
BALANUS GLANDULA	CIRRIPEDIA	9.44	4.67	100.00						
CHTHAMALUS SP(PI)	CIRRIPEDIA	7.50	9.11	83.33						
POLLICIPES POLYMERUS	CIRRIPEDIA	7.22	5.47	83.33						
BALESIA SP(PI)	PHAEOPHYTA	3.06	4.27	50.00						
LOTTIA DIGITALIS	GASTROPODA	1.39	2.22	33.33						
CRIDAEA FLACCIDA	RHODOPHYTA	0.33	1.39	33.33						
"COLLUSSELLA" SCABRA	GASTROPODA	0.36	0.36	33.33						
DIATOMS, UNIDENT.	CHRYSDOPHYTA	0.36	1.36	16.67						
SEMIBALANUS CARICOLE	CIRRIPEDIA	0.36	1.36	16.67						
ANALIPUS LAPONICUS	PHAEOPHYTA	0.28	0.68	16.67						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.28	0.68	16.67						
BLUE GREEN ALGAE, UNIDENT.	CYANOPHYTA	0.28	0.68	16.67						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.23	0.63	16.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.28	0.68	16.67						
PETROCELIS SP(PI)	RHODOPHYTA	0.28	0.68	16.67						
PORPHYRA PERFORATA	RHODOPHYTA	0.28	0.68	16.67						
RED BLADES	RHODOPHYTA	0.23	0.63	16.67						
RED CRUSTS	RHODOPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %: STD. %		% FREQ	MEAN %: STD. %		% FREQ	MEAN %: STD. %		% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
MYTILUS CALIFORNIANUS	PELECYPODA	90.83	7.43	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	28.06	21.66	100.00						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	22.78	9.76	100.00						
CHTHAMALLUS SP.(P.)	CIRRIPIEDIA	15.00	15.40	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	9.72	7.03	100.00						
PETROCELIS SP.(P.)	RHODOPHYTA	6.11	7.65	66.67						
TEGULA FINEBRALIS	GASTROPODA	1.00	1.26	60.00						
GELIDIUM PUSILLUM	RHODOPHYTA	0.33	2.14	16.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.33	0.86	33.33						
LOTTIA PARADIGMATICUS	GASTROPODA	0.33	1.26	16.67						
POLIDIPED POLYMERUS	CIRRIPIEDIA	0.33	1.26	16.67						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.33	0.68	16.67						
LOTTIA ASHI	GASTROPODA	0.33	0.68	16.67						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.33	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	26.94	7.26	100.00						
BOSSIELLA PLUMOSA	RHODOPHYTA	21.94	13.76	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	14.72	9.15	100.00						
TETRACLITA RUBESCENS	CIRRIPIEDIA	12.50	4.80	100.00						
POLICIPIES POLYMERUS	CIRRIPIEDIA	11.94	9.27	33.33						
BALANUS GLANDULA	CIRRIPIEDIA	11.57	4.22	100.00						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	4.72	1.64	100.00						
ANALIPUS JAPONICUS	PHAEOPHYTA	3.16	2.45	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	2.22	1.72	66.67						
G.A.T.G.O.R.	CHLOROPHYTA	2.22	2.72	50.00						
"POLYCELLA" SCABRA	GASTROPODA	1.67	1.33	66.67						
RED CRUSTS	RHODOPHYTA	1.29	0.67	33.33						
ENDOCALDIA MURICATA	RHODOPHYTA	1.11	2.02	33.33						
HALICHONDRIA PANICEA	PORIFERA	1.11	2.72	66.67						
CHTHAMALUS SP.(P.)	CIRRIPIEDIA	0.33	0.91	50.00						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.33	2.04	66.67						
LOTTIA DIGITALIS	GASTROPODA	0.33	2.04	66.67						
PRIONITIS LANCEOLATA	RHODOPHYTA	0.33	2.04	66.67						
PORPHYRA PERFORATA	RHODOPHYTA	0.56	0.36	33.33						
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	0.56	1.36	66.67						
CALLIARTHRON TUBERCULOSUM	RHODOPHYTA	0.28	0.68	66.67						
CORALLINA SP.(P.)	RHODOPHYTA	0.28	0.68	66.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
DIATOMS, UNIDENT.	CHRYSTOPHYTA	0.28	0.68	16.67						
FISSURELLA VOLCANO	GASTROPODA	0.28	0.68	16.67						
HALICLONA PERMOLLIS	PORIFERA	0.28	0.68	16.67						
LEPTASTERIAS SP(PI)	ASTEROIDEA	0.28	0.68	16.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.28	0.68	16.67						
LOTTIA PARADIGMATICUS	GASTROPODA	0.28	0.68	16.67						
NEMERTEANS, UNIDENT	NEMERTEA	0.28	0.68	16.67						
OLVA LOBATA	CHLOROPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %		STD.	MEAN %		STD.	MEAN %		STD.
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	65.83	7.05	100.00						
BOSSIELLA PLUMOSA	RHODOPHYTA	18.89	10.09	33.33						
CRUSTACE CORALLINES, UNIDENT.	RHODOPHYTA	8.33	5.06	100.00						
BALANUS GLANDULA	CIRRIPEDIA	8.06	7.43	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	7.78	10.14	33.33						
POLLICIPES POLYMERUS	CIRRIPEDIA	5.23	2.67	100.00						
PLECAHILUM VIOACEUM	RHODOPHYTA	3.33	5.67	33.33						
BRACHATOPOMA CALIFORNIANA	POLYCHAETA	2.78	2.08	33.33						
ULVA OBATA	CHLOROPHYTA	2.78	5.34	33.33						
ANALIPUS JAPONICUS	PHAEOPHYTA	2.22	2.32	50.00						
ULVA CALIFORNICA	CHLOROPHYTA	2.22	3.40	33.33						
DIATOMS, UNIDENT.	CHLOROPHYTA	1.94	2.00	33.33						
HALIMONDRIA PANICEA	PORIFERA	1.67	4.08	16.67						
CHTHAMALLUS SP(P.)	CIRRIPEDIA	1.39	1.25	56.67						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.83	1.39	33.33						
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.83	1.39	33.33						
ENDOCLADIA MURICATA	RHODOPHYTA	0.83	2.04	16.67						
RHODOGLOSSUM AFFINE	RHODOPHYTA	0.83	2.04	16.67						
RED BLADES	RHODOPHYTA	0.56	0.36	33.33						
CYLINDROCARPUS RUCCUSUS	PHAEOPHYTA	0.28	0.68	16.67						
GELIDIUM PUSILLUM	RHODOPHYTA	0.28	0.68	16.67						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	0.28	0.68	16.67						

W. H. S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD.			MEAN % STD.			MEAN % STD.		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	0.28	0.68	16.67						
RED CRUSTS	RHODOPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED				SPRING CLEARED				FALL CLEARED			
		MEAN %		STD. %		MEAN %		STD. %		MEAN %		STD. %	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	42.50	12.94	100.00									
BOSSIELLA PLUMOSA	RHODOPHYTA	9.44	11.34	83.33									
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	4.72	4.99	66.67									
BALANUS GLANDULA	CIRRIPIEDIA	3.33	3.16	66.67									
"COLLISELLA" SCABRA	GASTROPODA	2.50	2.74	66.67									
POLLICIPES POLYMERUS	CIRRIPIEDIA	2.22	2.92	50.00									
TETRAELITA RUBESCENS	CIRRIPIEDIA	2.22	3.60	33.33									
LOTTIA DIGITALIS	GASTROPODA	1.94	1.95	66.67									
CHTHAMALUS SP(P).	CIRRIPIEDIA	1.67	2.15	50.00									
ENDOCLADIA MURICATA	RHODOPHYTA	1.59	1.95	50.00									
MUTUALINA CALIFORNICA	POLYPLACOPHORA	1.11	2.02	33.33									
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.83	2.04	16.67									
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.56	0.86	33.33									
DIATOMS, UNIDENT.	CHRYSOPHYTA	0.56	1.36	16.67									
PETROCELIS SP(P).	RHODOPHYTA	0.28	0.68	16.67									

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD. %	FREQ	MEAN %	STD. %	FREQ	MEAN %	STD. %	FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	70.09	30.75	100.00	0.28	0.86	11.11			
BALANUS GLANDULA	CIRRIPIEDIA	15.00	17.81	88.89	0.74	1.03	38.89			
MASTOCARPUS PAPILLATUS	RHODOPHYTA	10.00	23.72	22.22						
ENDOCCLADIA MURICATA	RHODOPHYTA	6.02	8.29	66.67						
POLLICIPIES POLYMERUS	CIRRIPIEDIA	5.46	6.20	72.22						
BOSSIELLA PLUMOSA	RHODOPHYTA	4.44	9.74	33.33						
CHTHAMALUS SP(P).	CIRRIPIEDIA	3.73	4.92	55.56	0.37	0.71	22.22			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.73	4.75	50.00						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	2.73	4.57	33.33						
PORPHYRA PERFORATA	RHODOPHYTA	2.73	5.02	38.89	5.65	15.18	22.22			
TETRACLITA RUBESCENS	CIRRIPIEDIA	2.50	4.55	33.33						
PETROCELIS SP(P).	RHODOPHYTA	2.04	2.89	50.00						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	1.85	2.91	44.44	0.19	0.79	5.56			
PORPHYRA SP(P).	RHODOPHYTA	1.67	3.43	27.78	1.11	2.49	22.22			
ULVA CALIFORNICA	CHLOROPHYTA	0.74	1.92	16.67						
G.A.T.G.O.R.	CHLOROPHYTA	0.74	3.14	5.56	16.30	33.54	27.78			
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	0.65	1.30	27.78						
"COLLISELLA" SCABRA	GASTROPODA	0.65	1.42	22.22						
RED CRUSTS	RHODOPHYTA	0.56	1.98	11.11						
SEMIBALANUS CARICUSUS	CIRRIPIEDIA	0.56	1.28	22.22						
LOTTIA DIGITALIS	GASTROPODA	0.46	0.96	22.22	0.09	0.39	5.56			
TEGULA FUNEBRALIS	GASTROPODA	0.46	0.96	22.22	0.65	1.16	27.78			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
POLYSIPHONIA HENDRYI	[RHODOPHYTA	0.46	1.60	11.11						
LOTTIA PELTA	[GASTROPODA	0.37	0.71	22.22	0.56	1.28	22.22			
LITTORINA SCUTULATA/PLENA	[GASTROPODA	0.37	1.08	11.11	0.37	0.91	16.67			
IRIDAEA FLACCIDA	[RHODOPHYTA	0.28	0.64	16.67						
CALLITHAMNION PIKEANUM	[RHODOPHYTA	0.28	1.13	5.56						
MICROCLADIA BOREALIS	[RHODOPHYTA	0.28	1.13	5.56						
PHRAGMATOPOMA CALIFORNICA	[POLYCHAETA	0.19	0.54	11.11	0.09	0.39	5.56			
ANALIPUS JAPONICUS	[PHAEOPHYTA	0.19	0.79	5.56						
CERAMIMUM EATONIANUM	[RHODOPHYTA	0.19	0.79	5.56						
ANTHOPELURA XANTHOGRAMMICA	[ANTHOZOA	0.09	0.39	5.56						
ARTICULATED CORALLINES (JUV.)	[RHODOPHYTA	0.09	0.39	5.56						
DIATOMS, UNIDENT.	[CHRYSTOPHYTA	0.09	0.39	5.56	30.56	40.36	55.57			
FARLOWIA CONFERTA	[RHODOPHYTA	0.09	0.39	5.56						
HALOSACCION GLANDIFORME	[RHODOPHYTA	0.09	0.39	5.56						
LOTTIA GIGANTEA	[GASTROPODA	0.09	0.39	5.56						
LOTTIA SP(P).	[GASTROPODA	0.09	0.39	5.56						
NUCELLA EMARGINATA	[GASTROPODA	0.09	0.39	5.56						
PACHYGRAPUS CRASSIPES	[DECAPODA	0.09	0.39	5.56						
RHODOGLOSSUM AFFINE	[RHODOPHYTA	0.09	0.39	5.56						
STRONGYLOCENTROTUS PURPURATUS	[ECHINOIDEA	0.09	0.39	5.56						
CHAETOMORPHA LINUM	[CHLOROPHYTA				1.30	4.73	11.11			
DIPTERA-DIPTERA LARVAE	[INSECTA				8.98	12.86	55.56			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD.			MEAN % STD.			MEAN % STD.		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA	0.83	2.44	11.11						
ENTEROMORPHA LINZA	CHLOROPHYTA	3.06	8.25	16.67						
ENTEROMORPHA SP(P).	CHLOROPHYTA	0.19	0.79	5.56						
GREEN BLADES	CHLOROPHYTA	0.28	1.18	5.56						
NEMERTEANS, UNIDENT.	NEMERTEA	0.09	0.39	5.56						
PAGURUS SP(P).	DECAPODA	0.09	0.39	5.56						
PETALONIA FASCIA	PHAEOPHYTA	0.09	0.39	5.56						
POLYCHAETA, UNIDENT.	POLYCHAETA	0.09	0.39	5.56						
SCYTOSIPHON OCTYI	PHAEOPHYTA	0.09	0.39	5.56						
SCYTOSIPHON LOMENTARIA	PHAEOPHYTA	0.09	0.39	5.56						
SPONGOMORPHA HERTENSII	CHLOROPHYTA	0.83	3.54	5.56						
ULVA LOBATA	CHLOROPHYTA	7.73	12.80	33.33						
UROSPORA DOLIIFERA	CHLOROPHYTA	2.59	11.00	5.56						
UROSPORA PENICILLIFORMIS	CHLOROPHYTA	6.76	15.91	22.22						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
MYTILUS CALIFORNIANUS	PELECYPODA	96.67	1.67	100.00	0.56	0.96	33.33			
PORPHYRA PERFORATA	RHODOPHYTA	9.44	8.39	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	8.33	8.82	100.00	0.56	0.96	33.33			
CHTHAMALUS SP(P).	CIRRIPIEDIA	6.67	7.26	100.00	0.56	0.96	33.33			
ENDOCCLADIA MURICATA	RHODOPHYTA	3.89	3.85	100.00						
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	2.73	1.92	100.00						
TEGULA FUNEBRALIS	GASTROPODA	1.67	1.67	66.67	1.11	1.92	33.33			
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
LOTTIA Pelta	GASTROPODA	0.56	0.96	33.33	0.56	0.96	33.33			
PETROCELIS SP(P).	RHODOPHYTA	0.56	0.96	33.33						
POLLICIPES POLYMERUS	CIRRIPIEDIA	0.56	0.96	33.33						
G.A.T.G.O.R.	CHLOROPHYTA				69.44	44.29	100.00			
LITTORINA SCUTULATA/PLENA	GASTROPODA				1.11	1.92	33.33			
PAGURUS SP(P).	DECAPODA				0.56	0.96	33.33			
POLYCHAETA, UNIDENT.	POLYCHAETA				0.56	0.96	33.33			
UROSPORA PENICILLIFORMIS	CHLOROPHYTA				4.44	7.70	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	88.33	17.32	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	19.44	11.10	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	13.33	13.64	100.00	0.56	0.96	33.33			
CHTHAMALUS SP(P).	CIRRIPIEDIA	6.67	8.32	66.67						
PORPHYRA SP(P).	RHODOPHYTA	6.11	6.74	66.67						
POLLICIPES POLYMERUS	CIRRIPIEDIA	3.89	3.85	100.00						
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	1.67	2.39	33.33						
PETROCELIS SP(P).	RHODOPHYTA	1.11	0.96	66.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.56	0.96	33.33						
HALOSACCION GLANDIFORME	RHODOPHYTA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
LOTTIA Pelta	GASTROPODA	0.56	0.96	33.33						
LOTTIA SP(P).	GASTROPODA	0.56	0.96	33.33						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	0.56	0.96	33.33						
NUCELLA EMARGINATA	GASTROPODA	0.56	0.96	33.33						
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	0.56	0.96	33.33						
STRONGYLOCENTROTUS PURPURATUS	ECHINOIDEA	0.56	0.96	33.33						
CHAETOMORPHA LINUM	CHLOROPHYTA				6.67	11.55	33.33			
DIATOMS, UNIDENT.	CHRYSTOPHYTA				79.44	14.37	100.00			
DIPTERA-DIPTERA LARVAE	INSECTA				22.22	17.32	100.00			
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA				5.00	4.41	66.67			
ENTEROMORPHA LINZA	CHLOROPHYTA				7.78	8.39	66.67			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
SPONGOMORPHA MERTENSII	CHLOROPHYTA				5.00	8.66	33.33			
UROSPORA PENICILLIFORMIS	CHLOROPHYTA				32.22	29.12	66.67			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	95.56	6.31	100.00	1.11	1.92	33.33			
MASTOCARPUS PAPILLATUS	RHODOPHYTA	59.44	19.53	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	47.22	17.35	100.00	0.56	0.96	33.33			
ENDOCLADIA MURICATA	RHODOPHYTA	6.67	4.41	100.00						
PETROCELIS SP(P).	RHODOPHYTA	3.39	1.92	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	1.67	2.89	33.33						
TEGULA FUNEBRALIS	GASTROPODA	1.11	0.96	66.67	2.22	0.96	100.00			
CERAMIUM EATONIANUM	RHODOPHYTA	1.11	1.92	33.33						
CHTHAMALUS SP(P).	CIRRIPIEDIA	0.56	0.96	33.33	1.67		*100.00			
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
LOTTIA Pelta	GASTROPODA	0.56	0.96	33.33						
PACHYGRAPUS CRASSIPES	DECAPODA	0.56	0.96	33.33						
LITTORINA SCUTULATA/PLENA	GASTROPODA				1.11	0.96	66.67			

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
MYTILUS CALIFORNIANUS	PELECYPODA	27.22	12.62	100.00						
BOSSIELLA PLUMOSA	RHODOPHYTA	20.56	16.44	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	16.11	3.47	100.00						
TETRACLITA RUBESCENS	CIRRIPIEDIA	12.22	0.96	100.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	10.56	7.38	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	8.33	8.66	100.00	1.11	0.96	66.67			
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	5.56	3.47	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	4.44	7.70	33.33						
G.A.T.G.O.R.	CHLOROPHYTA	4.44	7.70	33.33						
PORPHYRA SP(P).	RHODOPHYTA	3.39	0.96	100.00	4.44	3.47	100.00			
PORPHYRA PERFORATA	RHODOPHYTA	3.33	5.77	33.33						
RED CRUSTS	RHODOPHYTA	2.78	4.81	33.33						
"COLLISELLA" SCABRA	GASTROPODA	2.22	2.55	66.67						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	2.22	1.92	66.67						
LITTORINA SCUTULATA/PLENA	GASTROPODA	2.22	1.92	66.67						
ULVA CALIFORNICA	CHLOROPHYTA	2.22	2.55	66.67						
LOTTIA DIGITALIS	GASTROPODA	1.67	1.67	66.67						
ANALIPUS JAPONICUS	PHAEOPHYTA	1.11	1.92	33.33						
CHTHAMALUS SP(P).	CIRRIPIEDIA	1.11	1.92	33.33						
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
ARTICULATED CORALLINES (JUV.)	RHODOPHYTA	0.56	0.96	33.33						
DIATOMS, UNIDENT.	CHRYSOPHYTA				91.67	5.00	100.00			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %			MEAN %			MEAN %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
DIPTERA-DIPTERA LARVAE	INSECTA				6.11	7.88	66.67			
ENTEROMORPHA SP(P).	CHLOROPHYTA				1.11	1.92	33.33			
GREEN BLADES	CHLOROPHYTA				1.67	2.89	33.33			
ULVA LOBATA	CHLOROPHYTA				20.56	20.54	66.67			

M.W.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD. %	FREQ	MEAN %	STD. %	FREQ	MEAN %	STD. %	FREQ
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	77.78	13.88	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	10.56	9.18	66.67	1.67	1.67	66.67			
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	9.44	6.31	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	7.78	5.85	100.00						
BOSSIELLA PLUMOSA	RHODOPHYTA	5.00	5.01	66.67						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	3.33	4.41	66.67						
PORPHYRA PERFORATA	RHODOPHYTA	3.33	3.33	66.67	0.56	0.96	33.33			
POLYSIPHONIA HENRYI	RHODOPHYTA	2.78	3.47	66.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.22	1.92	66.67						
ULVA CALIFORNICA	CHLOROPHYTA	2.22	3.85	33.33						
MICROCLADIA BOREALIS	RHODOPHYTA	1.67	2.89	33.33						
CHTHAMALLUS SP(P).	CIRRIPIEDIA	1.11	0.96	66.67						
ENDOCLADIA MURICATA	RHODOPHYTA	1.11	1.92	33.33						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
FARLOWIA CONFERTA	RHODOPHYTA	0.56	0.96	33.33						
IRIDAEA FLACCIDA	RHODOPHYTA	0.56	0.96	33.33						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.56	0.96	33.33	0.56	0.96	33.33			
RED CRUSTS	RHODOPHYTA	0.56	0.96	33.33						
RHODOGLOSSUM AFFINE	RHODOPHYTA	0.56	0.96	33.33						
TETRACLITA RUBESCENS	CIRRIPIEDIA	0.56	0.96	33.33						
CHAETOMORPHA LINUM	CHLOROPHYTA				1.11	1.92	33.33			
DIATOMS, UNIDENT.	CHRYSTOPHYTA				84.44	18.36	100.00			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD. %			MEAN % STD. %			MEAN % STD. %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
DIPTERA-DIPTERA LARVAE	INSECTA	1	1	1	8.89	13.98	66.67	1	1	1
LOTTIA DIGITALIS	GASTROPODA	1	1	1	0.56	0.96	33.33	1	1	1
LOTTIA PELTA	GASTROPODA	1	1	1	0.56	0.96	33.33	1	1	1
NEMERTEANS, UNIDENT.	NEMERTEA	1	1	1	0.56	0.96	33.33	1	1	1
PORPHYRA SP(P)	RHODOPHYTA	1	1	1	2.22	3.85	33.33	1	1	1
SCYTOSIPHON OCTYI	PHAEOPHYTA	1	1	1	0.56	0.96	33.33	1	1	1
ULVA LOBATA	CHLOROPHYTA	1	1	1	12.22	19.72	66.67	1	1	1

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		[MEAN %] [STD. %]		[COVER %]	[MEAN %] [STD. %]		[COVER %]	[MEAN %] [STD. %]		[COVER %]
		[DEV. %]	[% FREQ]		[DEV. %]	[% FREQ]		[DEV. %]	[% FREQ]	
MYTILUS CALIFORNIANUS	[PELECYPODA]	35.00	10.93	100.00						
PETROCELIS SP(P).	[RHODOPHYTA]	6.67	3.33	100.00						
CORALLINA VANCOUVERIENSIS	[RHODOPHYTA]	5.00	5.00	66.67						
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA]	3.33	1.67	100.00						
POLICIPES POLYMERUS	[CIRRIPEDIA]	2.79	2.55	66.67						
NUTTALLINA CALIFORNICA	[POLYPLACOPHORA]	3.22	0.96	100.00	1.11	1.92	33.33			
BALANUS GLANDULA	[CIRRIPEDIA]	1.11	1.92	66.67						
TETRACLITA RUBESCENS	[CIRRIPEDIA]	2.22	2.55	66.67						
"COLLITSELLA" SCABRA	[GASTROPODA]	1.67	1.67	66.67						
CALLITHAMNION PIKEANUM	[RHODOPHYTA]	1.67	2.89	33.33						
TRIDAEA FLACCIDA	[RHODOPHYTA]	1.11	0.96	66.67						
BOSSIELLA PLUMOSA	[RHODOPHYTA]	1.11	1.92	33.33						
ANTHOPELURA ELEGANTISSIMA	[ANTHOZOA]	0.56	0.96	33.33						
ANTHOPELURA XANTHOGRAHMICA	[ANTHOZOA]	0.56	0.96	33.33						
CHTHAMALUS SP(P).	[CIRRIPEDIA]	0.56	0.96	33.33						
DIATOMS, UNIDENT.	[CHRYSTOPHYTA]	0.56	0.96	33.33	48.33	20.88	100.00			
ENDOCLADIA MURICATA	[RHODOPHYTA]	0.56	0.96	33.33						
LOTTIA GIGANTEA	[GASTROPODA]	0.56	0.96	33.33						
LOTTIA Pelta	[GASTROPODA]	0.56	0.96	33.33	2.22	2.55	66.67			
PHRAGMATOPOMA CALIFORNICA	[POLYCHAETA]	0.56	0.96	33.33						
PORPHYRA PERFORATA	[RHODOPHYTA]	0.56	0.96	33.33	33.33	24.04	100.00			
DIPTERA-DIPTERA LARVAE	[INSECTA]				16.67	15.00	100.00			

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(M'TILUS ASSEMBLAGE)

PERIOD=SUMMER 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENTEROMORPHA LINZA	CHLOROPHYTA				10.56	18.28	33.33			
G.A.T.G.O.R.	CHLOROPHYTA				28.33	39.41	66.67			
PETALONIA FASCIA	PHAEOPHYTA				0.56	0.96	33.33			
SCYTOSIPHON LOMENTARIA	PHAEOPHYTA				0.56	0.96	33.33			
TEGULA FUNEBRALIS	GASTROPODA				0.56	0.96	33.33			
ULVA LOBATA	CHLOROPHYTA				13.89	15.49	100.00			
UROSPORA COLIIFERA	CHLOROPHYTA				13.86	16.74	33.33			
UROSPORA PENICILLIFORMIS	CHLOROPHYTA				3.39	5.74	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		[MEAN %] [STD. %]			[MEAN %] [STD. %]			[MEAN %] [STD. %]		
		[COVER]	[DEV.]	[% FREQ]	[COVER]	[DEV.]	[% FREQ]	[COVER]	[DEV.]	[% FREQ]
MYTILUS CALIFORNIANUS	[PELECYPODA]	71.30	26.26	100.00	0.28	0.64	16.67			
BALANUS GLANDULA	[CIRRIPEDIA]	11.02	13.26	94.44	3.89	4.24	72.22			
MASTOCARPUS PAPILLATUS	[RHODOPHYTA]	7.13	12.91	41.67						
CHTHAMALUS SP(P).	[CIRRIPEDIA]	6.70	10.56	75.00	12.87	18.78	72.22			
ENDOCLADIA MURICATA	[RHODOPHYTA]	5.14	10.18	44.44	0.46	1.38	11.11			
POLLICIPES POLYMERUS	[CIRRIPEDIA]	4.91	5.49	69.44	0.09	0.39	5.56			
BOSSIELLA PLUMOSA	[RHODOPHYTA]	3.89	7.87	33.33	3.15	11.11	11.11			
PORPHYRA SP(P).	[RHODOPHYTA]	3.75	12.31	19.44	1.29	3.93	16.67			
CRUSTOSE CORALLINES, UNIDENT.	[RHODOPHYTA]	3.47	4.97	50.00	0.83	2.37	22.22			
PETROCELIS SP(P).	[RHODOPHYTA]	2.59	5.11	30.56	0.19	0.54	11.11			
TETRACLITA RUBESCENS	[CIRRIPEDIA]	2.18	4.69	30.56						
ULVA SP(P).	[CHLOROPHYTA]	1.90	6.67	22.22	14.35	32.65	22.22			
CLADOPHORA COLUMBIANA	[CHLOROPHYTA]	1.81	5.81	25.00						
PORPHYRA PERFORATA	[RHODOPHYTA]	1.76	5.65	13.89	3.52	14.93	9.56			
LOTTIA DIGITALIS	[GASTROPODA]	1.20	1.89	33.33	0.83	1.43	22.22			
CORALLINA VANCOUVERIENSIS	[RHODOPHYTA]	1.16	3.28	25.00	0.09	0.39	5.56			
ANTHOPEURA ELEGANTISSIMA	[ANTHOZOA]	1.11	2.25	27.78						
TEGULA FUNEBRALIS	[GASTROPODA]	1.02	2.00	25.00	0.65	1.42	22.22			
"COLLISELLA" SCABRA	[GASTROPODA]	0.93	1.66	27.78	0.74	0.35	44.44			
GELIDIUM PUSILLUM	[RHODOPHYTA]	0.93	2.77	13.89						
POLYSIPHONIA HENRYI	[RHODOPHYTA]	0.83	2.97	16.67						
NUTTALLINA CALIFORNICA	[POLYPLACOPHORA]	0.56	1.05	25.00	0.56	1.28	22.22			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85

SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	0.56	1.69	13.89						
ANALIPUS JAPONICUS	PHAEOPHYTA	0.51	1.31	19.44						
IRIDAEA FLACCIDA	RHODOPHYTA	0.51	1.63	13.89	0.19	0.79	5.56			
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	0.51	2.55	5.56						
RED CRUSTS	RHODOPHYTA	0.37	1.06	13.89	0.19	0.79	5.56			
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA	0.37	1.27	11.11	0.37	1.22	11.11			
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.32	0.87	13.89	2.22	4.16	44.44			
G.A.T.G.O.R.	CHLOROPHYTA	0.28	1.23	5.56	1.35	3.37	27.78			
DIATOMS, UNIDENT.	CHRYSOPHYTA	0.23	0.99	5.56	1.37	3.50	22.22			
PTEROCLADIA CALOGLOSSOIDES	RHODOPHYTA	0.23	1.39	2.78						
EGREGIA MENZIESII	PHAEOPHYTA	0.23	1.14	5.56						
GELIDIUM COULTERI	RHODOPHYTA	0.19	0.87	5.56						
CALLIARTHRON SP(P).	RHODOPHYTA	0.14	0.47	8.33						
LOTTIA Pelta	GASTROPODA	0.14	0.47	8.33	0.46	1.12	16.67			
RALFSIA SP(P).	PHAEOPHYTA	0.14	0.47	8.33	0.46	0.96	22.22			
MICROCLADIA BOREALIS	RHODOPHYTA	0.14	0.61	5.56						
LOTTIA LIMATULA	GASTROPODA	0.09	0.39	5.56	0.19	0.54	11.11			
NUCELLA EMARGINATA	GASTROPODA	0.09	0.39	5.56	0.09	0.39	5.56			
GIGARTINA CANALICULATA	RHODOPHYTA	0.09	0.56	2.78						
HALICLONA SP(P).	PORIFERA	0.09	0.56	2.78						
ULVA CALIFORNICA	CHLOROPHYTA	0.09	0.56	2.78	2.96	12.16	11.11			
BINGHAMIA SP(P).	RHODOPHYTA	0.05	0.28	2.78						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
CALLITHAMNION PIKEANUM	RHODOPHYTA	0.05	0.28	2.78						
CALLITHAMNION RUPICOLUM	RHODOPHYTA	0.05	0.28	2.78						
CERAMIMUM EATONIANUM	RHODOPHYTA	0.05	0.28	2.78						
CIRRIPEDS, UNIDENT.	CIRRIPEDIA	0.05	0.28	2.78						
FUCUS DISTICHUS	PHAEOPHYTA	0.05	0.28	2.78						
HALICHOENDRIA PANICEA	PORIFERA	0.05	0.28	2.78						
HALOSACCION GLANDIFORME	RHODOPHYTA	0.05	0.28	2.78						
LOTTIA ASM.	GASTROPODA	0.05	0.28	2.78						
LOTTIA SP(P).	GASTROPODA	0.05	0.28	2.78						
POLYSIPHONIA SP(P).	RHODOPHYTA	0.05	0.28	2.78						
PORIFERANS, UNIDENT.	PORIFERA	0.05	0.28	2.78						
RED BLADES	RHODOPHYTA	0.05	0.28	2.78	0.28	0.54	16.67			
RHODOGLOSSUM AFFINE	RHODOPHYTA	0.05	0.28	2.78						
AMPHIPODS, UNIDENT.	AMPHIPODA				0.09	0.39	5.56			
BROWN BLADES	PHAEOPHYTA				0.09	0.39	5.56			
COLPOMENIA SINUOSA	PHAEOPHYTA				0.09	0.39	5.56			
ENTEROMORPHA LINZA	CHLOROPHYTA				4.07	11.56	16.67			
ENTEROMORPHA SP(P).	CHLOROPHYTA				0.19	0.79	5.56			
LITTORINA PLANAXIS	GASTROPODA				0.09	0.39	5.56			
NUCELLA LAMELLOSA	GASTROPODA				0.09	0.39	5.56			
PAGURUS SP(P).	DECAPODA				0.09	0.39	5.56			
PETALONIA FASCIA	PHAEOPHYTA				0.19	0.54	11.11			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA				0.09	0.39	5.56			
PTEROSIPHONIA PENNATA	RHODOPHYTA				0.09	0.39	5.56			
SCYTOSIPHON LOMENTARIA	PHAEOPHYTA				0.09	0.39	5.56			
TECTURA SCUTUM	GASTROPODA				0.09	0.39	5.56			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85

SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	92.50	5.14	100.00	0.56	0.96	33.33			
PORPHYRA SP(P).	RHODOPHYTA	17.78	26.64	66.67						
BALANUS GLANDULA	CIRRIPIEDIA	10.00	11.01	83.33	5.00	4.41	100.00			
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	5.00	2.79	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	3.06	2.22	83.33	7.78	3.47	100.00			
MASTOCARPUS PAPILLATUS	RHODOPHYTA	2.78	3.90	50.00						
ENDOCLADIA MURICATA	RHODOPHYTA	2.78	5.34	33.33	1.11	1.92	33.33			
TEGULA FUNEBRALIS	GASTROPODA	2.50	2.30	66.67	2.78	1.92	100.00			
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	2.50	3.46	50.00						
PORPHYRA PERFORATA	RHODOPHYTA	1.67	4.03	16.67						
POLICIPIES POLYMERUS	CIRRIPIEDIA	0.33	1.39	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.56	0.86	33.33						
"COLLISELLA" SCABRA	GASTROPODA	0.28	0.68	16.67	0.56	0.96	33.33			
LOTTIA DIGITALIS	GASTROPODA	0.28	0.68	16.67	1.11	0.96	66.67			
G.A.T.G.O.R.	CHLOROPHYTA				3.33	3.33	66.67			
LITTORINA KEENAE	GASTROPODA				0.56	0.96	33.33			
LITTORINA SCUTULATA/PLENA	GASTROPODA				1.67	*	100.00			
NUTTALLINA CALIFORNICA	POLYPLACOPHORA				0.56	0.96	33.33			
PAGURUS SP(P).	DECAPODA				0.56	0.96	33.33			
RED BLADES	RHODOPHYTA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85

SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	90.00	14.53	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	24.44	12.00	100.00						
BALANUS GLANDULA	CIRRIPEDIA	9.17	4.20	100.00	1.67	1.67	66.67			
HASTOCARPUS PAPILLATUS	RHODOPHYTA	6.11	6.97	33.33						
PORPHYRA PERFORATA	RHODOPHYTA	5.33	11.34	33.33						
POLLICIPES POLYMERUS	CIRRIPEDIA	5.29	4.28	33.33						
PORPHYRA SP(P).	RHODOPHYTA	4.72	6.73	50.00	7.73	7.52	66.67			
CHTHAMALUS SP(P).	CIRRIPEDIA	4.17	2.30	33.33	2.33	4.41	66.67			
TRIDAEA FLACCIDA	RHODOPHYTA	2.78	3.28	66.67						
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	2.50	6.12	16.67						
LOTTIA DIGITALIS	GASTROPODA	1.11	2.22	33.33	0.56	0.96	33.33			
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.56	0.86	33.33						
PETROCELIS SP(P).	RHODOPHYTA	0.56	1.36	16.67	0.56	0.96	33.33			
SEMIBALANUS CARIOSUS	CIRRIPEDIA	0.56	1.36	16.67						
CALLITHAMNION PIKEANUM	RHODOPHYTA	0.28	0.68	16.67						
CIRRIPEDS, UNIDENT.	CIRRIPEDIA	0.28	0.68	16.67						
FUCUS DISTICHUS	PHAEOPHYTA	0.28	0.68	16.67						
HALOSACCION GLANDIFORME	RHODOPHYTA	0.28	0.68	16.67						
LOTTIA Pelta	GASTROPODA	0.28	0.68	16.67						
POLYSIPHONIA SP(P).	RHODOPHYTA	0.28	0.68	16.67						
RED CRUSTS	RHODOPHYTA	0.28	0.68	16.67	1.11	1.92	33.33			
AMPHIPODS, UNIDENT.	AMPHIPODA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
DIATOMS, UNIDENT.	CHRYSTOPHYTA				3.89	6.74	33.33			
ENTEROMORPHA LINZA	CHLOROPHYTA				23.89	20.71	66.67			
ENTEROMORPHA SP(P).	CHLOROPHYTA				1.11	1.92	33.33			
NUCELLA EMARGINATA	GASTROPODA				0.56	0.96	33.33			
NUCELLA LAMELLOSA	GASTROPODA				0.56	0.96	33.33			
PTEROSIPHONIA PENNATA	RHODOPHYTA				0.56	0.96	33.33			
TECTURA SCUTUM	GASTROPODA				0.56	0.96	33.33			
ULVA CALIFORNICA	CHLOROPHYTA				17.22	29.83	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	91.67	11.25	100.00						
HASTOCARPUS PAPILLATUS	RHODOPHYTA	33.06	9.97	100.00						
CHTHAMALUS SP(P).	CIRRIPEDIA	22.50	19.11	83.33	51.11	12.73	100.00			
BALANUS GLANDULA	CIRRIPEDIA	21.67	26.35	100.00	2.22	2.55	66.67			
PETROCELIS SP(P).	RHODOPHYTA	10.00	4.59	100.00						
GELIDIUM PUSILLUM	RHODOPHYTA	4.72	5.31	66.67						
TEGULA FLNEBRALIS	GASTROPODA	3.61	2.67	83.33	1.11	1.92	83.33			
ENDOCLADIA MURICATA	RHODOPHYTA	1.67	1.33	66.67	1.67	2.89	83.33			
LITTORINA SCUTULATA/PLENA	GASTROPODA	1.67	1.49	66.67	9.44	6.31	100.00			
POLLICIPES POLYMERUS	CIRRIPEDIA	1.39	3.40	16.67						
PTEROCALDIA CALOGLOSSOIDES	RHODOPHYTA	1.39	3.40	16.67						
GELIDIUM COULTERI	RHODOPHYTA	1.11	2.02	33.33						
NUCELLA EMARGINATA	GASTROPODA	0.56	0.86	33.33						
GIGARTINA CANALICULATA	RHODOPHYTA	0.56	1.36	16.67						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.28	0.68	16.67						
CERAMNUM EATONIANUM	RHODOPHYTA	0.28	0.68	16.67						
LOTTIA SP(P).	GASTROPODA	0.28	0.68	16.67						
"COLLISELLA" SCABRA	GASTROPODA				0.56	0.96	33.33			
LOTTIA Pelta	GASTROPODA				0.56	0.96	33.33			
RALFSIA SP(P).	PHAEOPHYTA				2.22	0.96	100.00			
RED BLADES	RHODOPHYTA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	37.22	12.90	100.00						
BOSSIELLA PLUMOSA	RHODOPHYTA	12.50	14.60	66.67						
TETRACLITA RUBESCENS	CIRRIPIEDIA	10.00	7.30	100.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	3.61	6.78	100.00	0.56	0.96	33.33			
CLADOPHORA COLUMBIANA	CHLOROPHYTA	7.78	12.98	50.00						
POLYICIPES POLYMERUS	CIRRIPIEDIA	6.67	6.75	100.00						
PETROCELIS SP(P).	RHODOPHYTA	4.72	7.78	50.00	0.56	0.96	33.33			
BALANUS GLANDULA	CIRRIPIEDIA	4.17	3.46	33.33	2.22	2.33	66.67			
ULVA SP(P).	CHLOROPHYTA	4.17	4.56	66.67	85.00	3.33	100.00			
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	3.89	7.20	50.00	0.56	0.96	33.33			
CHTHAMALUS SP(P).	CIRRIPIEDIA	3.06	3.23	66.67						
ANALIPUS JAPONICUS	PHAEOPHYTA	2.78	2.02	100.00						
"COLLISELLA" SCABRA	GASTROPODA	2.50	2.04	66.67	1.67	*	100.00			
LOTTIA DIGITALIS	GASTROPODA	1.94	2.45	50.00						
G.A.T.G.O.R.	CHLOROPHYTA	1.67	2.79	33.33	6.67	7.64	66.67			
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	1.39	1.64	50.00	0.56	0.96	33.33			
RED CRUSTS	RHODOPHYTA	1.11	2.02	33.33						
EGREGIA MENZIESII	PHAEOPHYTA	1.11	2.72	16.67						
ENDOCLADIA MURICATA	RHODOPHYTA	1.11	2.72	16.67						
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA	0.83	1.39	33.33						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	0.83	2.04	16.67						
LOTTIA LIMATULA	GASTROPODA	0.56	0.86	33.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85

SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
DIATOMS, UNIDENT.	CHRYSTOPHYTA	0.56	1.36	16.67	2.78	4.81	33.33			
HALICLONA SP(P).	PORIFERA	0.56	1.36	16.67						
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA	0.56	1.36	16.67						
BINGHAMIA SP(P).	RHODOPHYTA	0.28	0.68	16.67						
HALICHONDRIA PANICEA	PORIFERA	0.28	0.68	16.67						
IRIDAEA FLACCIDA	RHODOPHYTA	0.28	0.68	16.67	1.11	1.92	33.33			
LOTTIA ASMI	GASTROPODA	0.28	0.68	16.67						
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.28	0.68	16.67						
PORIFERANS, UNIDENT.	PORIFERA	0.28	0.68	16.67						
RAFSIA SP(P).	PHAEOPHYTA	0.28	0.68	16.67	0.56	0.96	33.33			
RED BLADES	RHODOPHYTA	0.28	0.68	16.67	0.56	0.96	33.33			
BROWN BLADES	PHAEOPHYTA				0.56	0.96	33.33			
COLPOMENIA SINUOSA	PHAEOPHYTA				0.56	0.96	33.33			
ENTEROMORPHA LINZA	CHLOROPHYTA				0.56	0.96	33.33			
PETALONIA FASCIA	PHAEOPHYTA				1.11	0.96	66.67			
PORPHYRA SP(P).	RHODOPHYTA				0.56	0.96	33.33			
SCYTOSIPHON LOMENTARIA	PHAEOPHYTA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	72.50	17.41	100.00	0.56	0.96	33.33			
BALANUS GLANDULA	CIRRIPEDIA	14.44	9.87	100.00	8.33	5.00	100.00			
POLLICIPES POLYMERUS	CIRRIPEDIA	10.28	5.72	100.00	0.56	0.96	33.33			
BOSSIELLA PLUMOSA	RHODOPHYTA	7.78	6.64	66.67						
ULVA SP(P).	CHLOROPHYTA	7.22	15.26	66.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	5.56	5.44	66.67	3.89	5.36	66.67			
POLYSIPHONIA HENDRYI	RHODOPHYTA	4.44	6.47	66.67						
GLACOPHORA COLUMBIANA	CHLOROPHYTA	3.22	3.12	66.67						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.94	2.67	50.00						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	1.39	1.25	66.67						
LOTTIA DIGITALIS	GASTROPODA	0.83	0.91	30.00	0.78	2.55	66.67			
CHTHAMALLUS SP(P).	CIRRIPEDIA	0.83	1.39	33.33	2.33	3.83	66.67			
MICROCLADIA BOREALIS	RHODOPHYTA	0.83	1.39	33.33						
RED CRUSTS	RHODOPHYTA	0.83	1.39	33.33						
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	0.83	2.04	16.67						
ENDOCLADIA MURICATA	RHODOPHYTA	0.56	0.86	33.33						
TETRACLITA RUBESCENS	CIRRIPEDIA	0.56	1.36	16.67						
ULVA CALIFORNICA	CHLOROPHYTA	0.56	1.36	16.67	0.56	0.96	33.33			
"COLLISELLA" SCABRA	GASTROPODA	0.28		6.67	0.56	0.96	33.33			
ANALIPUS JAPONICUS	PHAEOPHYTA	0.25	0.68	16.67						
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA	0.16	0.68	16.67	2.22	2.55	66.67			
EGREGIA MENZIESII	PHAEOPHYTA	0.28	0.68	16.67						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD.			MEAN % STD.			MEAN % STD.		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.28	0.68	16.67	2.22	2.55	66.67			
LOTTIA Pelta	GASTROPODA	0.28	0.68	16.67	2.22	1.92	66.67			
PORPHYRA PERFORATA	RHODOPHYTA	0.28	0.68	16.67						
RALFSIA SP(P).	PHAEOPHYTA	0.28	0.68	16.67						
RHODOGLOSSUM AFFINE	RHODOPHYTA	0.28	0.68	16.67						
LOTTIA LIMATULA	GASTROPODA				1.11	0.96	66.67			
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA				0.56	0.96	33.33			

N.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	43.89	15.48	100.00	0.56	0.96	33.33			
CHTHAMALUS SP(P).	CIRRIPIEDIA	7.78	3.28	100.00	11.67	6.01	100.00			
BALANUS GLANDULA	CIRRIPIEDIA	6.67	4.71	100.00	3.89	6.74	33.33			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	6.11	3.44	100.00	0.56	0.96	33.33			
POLICIPES POLYMERUS	CIRRIPIEDIA	5.00	4.71	33.33						
BOSSIELLA PLUMOSA	RHODOPHYTA	3.06	3.71	66.67	18.39	24.37	66.67			
LOTTIA DIGITALIS	GASTROPODA	3.06	2.45	33.33	0.56	0.96	33.33			
PORPHYRA PERFORATA	RHODOPHYTA	2.78	5.80	16.67	21.11	26.37	33.33			
TETRACLITA RUBESCENS	CIRRIPIEDIA	2.50	2.30	66.67						
COLLISSELLA SCABRA	GASTROPODA	2.50	2.30	66.67	1.11	0.96	66.67			
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.11	1.36	50.00						
CYLINDROCARPUS RUGOSUS	PHAECOPHYTA	1.11	2.72	16.67						
CALLIARTHRON SP(P).	RHODOPHYTA	0.83	0.91	50.00						
CLADOPHYRA COLUMBIANA	CHLOROPHYTA	0.83	1.39	33.33						
DIATOMS, UNIDENT.	CHRYSOPHYTA	0.83	2.04	16.67	2.78	3.47	66.67			
GELIDIUM PUSILLUM	RHODOPHYTA	0.83	2.04	16.67						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.56	0.86	33.33	2.22	2.55	66.67			
CALLITHAMNION RUPICOLUM	RHODOPHYTA	0.28	0.68	16.67						
ENDOCLADIA MURICATA	RHODOPHYTA	0.28	0.68	16.67						
LOTTIA PELTA	GASTROPODA	0.28	0.68	16.67						
PETROCELIS SP(P).	RHODOPHYTA	0.28	0.68	16.67						
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.28	0.68	16.67						

M.N.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 85 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD. %			MEAN % STD. %			MEAN % STD. %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
RALEPSIA SP(P).	PHAEOPHYTA	0.28	0.68	16.67						
SEMIBALANUS CARIOSUS	CIRRIPEDIA	0.28	0.68	16.67						
G.A.T.G.O.R.	CHLOROPHYTA				1.11	1.92	33.33			
ULVA SP(P).	CHLOROPHYTA				1.11	1.92	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD. %	% FREQ	MEAN %	STD. %	% FREQ	MEAN %	STD. %	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	71.57	24.07	100.00						
BALANUS GLANDULA	CIRRIPEDIA	8.24	8.88	38.89				0.09	0.39	5.56
POLLICIPES POLYMERUS	CIRRIPEDIA	7.96	8.99	66.67						
CHTHAMALUS SP(P).	CIRRIPEDIA	7.96	11.12	77.78				0.46	0.96	22.22
ENDOCLADIA MURICATA	RHODOPHYTA	5.37	11.12	50.00				1.65	2.78	3.86
NASTOCARPUS PAPILLATUS	RHODOPHYTA	3.61	6.72	44.44						
BOSSIELLA PLUMOSA	RHODOPHYTA	3.06	6.37	27.73				0.09	0.39	5.56
TETRACLITA RUBESCENS	CIRRIPEDIA	2.87	5.57	44.44						
PETROCELIS SP(P).	RHODOPHYTA	2.13	3.51	44.44						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	1.94	2.64	44.44				1.85	4.16	27.78
ANTHOPLURA ELEGANTISSIMA	ANTHOZOA	1.39	3.04	33.33						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	1.30	2.59	33.33				0.13	0.34	1.11
LOTTIA DIGITALIS	GASTROPODA	1.20	1.96	38.89				0.09	0.39	5.56
POLYSIPHONIA NATHANIELLI	RHODOPHYTA	0.93	3.93	5.56						
TEGULA FUNEBRALIS	GASTROPODA	0.83	1.31	33.33				0.36	1.82	16.67
ANALIPUS JAPONICUS	PHAEOPHYTA	0.83	1.74	27.78						
ULVA SP(P).	CHLOROPHYTA	0.74	2.08	16.67				10.74	17.84	33.33
GELIDIUM COULTERI	RHODOPHYTA	0.74	3.14	5.56						
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.99	27.78						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.56	1.28	22.22						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.37	0.91	16.67						
CERAMIMUM EATONIANUM	RHODOPHYTA	0.37	1.57	5.56						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
CUMAGLOIA ANDERSONII	RHODOPHYTA	0.37	1.57	5.56						
RED CRUSTS	RHODOPHYTA	0.28	0.64	16.67				0.09	0.39	5.56
SEMIBALANUS CARIOSUS	CIRRIPEDIA	0.28	0.86	11.11						
CALLITHAMNION PIKEANUM	RHODOPHYTA	0.19	0.54	11.11						
IRIDAEA FLACCIDA	RHODOPHYTA	0.19	0.54	11.11						
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.19	0.54	11.11				1.20	3.27	16.67
ULVA CALIFORNICA	CHLOROPHYTA	0.19	0.54	11.11				4.72	17.72	11.11
GELIDIUM PUSILLUM	RHODOPHYTA	0.19	0.79	5.56						
PLOCAMUM VIOLACEUM	RHODOPHYTA	0.19	0.79	5.56						
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.19	0.79	5.56				0.09	0.39	5.56
PTEROCCLADIA CALGLOSSEIDES	RHODOPHYTA	0.19	0.79	5.56						
BINGHAMIA SP(P).	RHODOPHYTA	0.09	0.39	5.56						
BROWN CRUSTS	PHAEOPHYTA	0.09	0.39	5.56						
GREEN BLADES	CHLOROPHYTA	0.09	0.39	5.56				0.09	0.39	5.56
LOTTIA ASHI	GASTROPODA	0.09	0.39	5.56						
LOTTIA GIGANTEA	GASTROPODA	0.09	0.39	5.56				0.09	0.39	5.56
LOTTIA PARADIGITALIS	GASTROPODA	0.09	0.39	5.56						
AMPHIPODS, UNIDENT.	AMPHIPODA							0.09	0.39	5.56
BANGIA FUSCO-PURPUREA	RHODOPHYTA							2.22	7.52	16.67
DIATOMS, UNIDENT.	CHRYSOPHYTA							43.24	37.90	83.33
DIPTERA-DIPTERA LARVAE	INSECTA							0.28	0.64	16.67
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA							0.46	1.38	11.11

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENTEROMORPHA SP(P).	CHLOROPHYTA							0.74	3.14	5.56
G.A.T.G.O.R.	CHLOROPHYTA							1.48	5.48	16.67
LOTTIA LIMATULA	GASTROPODA							0.09	0.39	5.56
PORPHYRA LANCEOLATA	RHODOPHYTA							0.28	1.18	5.56
PORPHYRA SP(P).	RHODOPHYTA							5.57	13.27	44.44
RED FILAMENTS	RHODOPHYTA							0.28	0.86	11.11
UROSPORA WORMSKIOLOI	CHLOROPHYTA							2.74	2.08	16.67

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	92.22	8.39	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	9.44	9.18	100.00						
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	6.67	5.00	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	3.33	2.89	66.67						
TEGULA FUNEBRALIS	GASTROPODA	2.78	0.96	100.00				1.11	0.96	66.67
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	1.67	1.67	66.67						
ENDOCCLADIA MURICATA	RHODOPHYTA	1.67	2.89	33.33						
LITTORINA SCUTULATA/PLENA	GASTROPODA	1.11	0.96	66.67						
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33				0.56	0.96	33.33
LOTTIA PARADIGITALIS	GASTROPODA	0.56	0.96	33.33						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	0.56	0.96	33.33						
RED CRUSTS	RHODOPHYTA	0.56	0.96	33.33						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA							5.00	5.00	100.00
DIATOMS, UNIDENT.	CHRYSTOPHYTA							15.00	25.98	33.33
DIPTERA-DIPTERA LARVAE	INSECTA							0.56	0.96	33.33
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA							1.67	2.89	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	81.67	23.63	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	23.33	20.48	66.67						
POLLIPIES POLYMERUS	CIRRIPIEDIA	15.56	18.58	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	8.89	0.96	100.00				2.22	0.96	100.00
BALANUS GLANDULA	CIRRIPIEDIA	5.56	5.36	100.00				0.56	0.96	33.33
PETROCELIS SP(P).	RHODOPHYTA	4.44	6.31	66.67						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	3.33	2.89	100.00						
IRIDAEA FLACCIDA	RHODOPHYTA	1.11	0.96	66.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	1.11	1.92	33.33						
CALLITHAMNION PIKEANUM	RHODOPHYTA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
RED CRUSTS	RHODOPHYTA	0.56	0.96	33.33						
BANGIA FUSCO-PURPUREA	RHODOPHYTA							10.88	18.28	33.33
DIATOMS, UNIDENT.	CHRYSOPHYTA							35.00	23.15	100.00
DIPTERA-DIPTERA LARVAE	INSECTA							0.56	0.96	33.33
GREEN BLADES	CHLOROPHYTA							0.56	0.96	33.33
PORPHYRA LANCEOLATA	RHODOPHYTA							1.67	2.39	33.33
PORPHYRA SP(P).	RHODOPHYTA							3.33	4.41	66.67
UROSPORA WORMSKIOLDII	CHLOROPHYTA							4.44	3.47	100.00

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	94.44	3.47	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	23.33	20.82	66.67				0.56	0.96	33.33
HASTOCARPUS PAPILLATUS	RHODOPHYTA	17.22	5.36	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	11.11	17.32	66.67						
ENDOCLADIA MURICATA	RHODOPHYTA	5.00	4.41	66.67						
PETROCELIS SP(P).	RHODOPHYTA	4.44	5.09	66.67						
GELIDIUM COULTERI	RHODOPHYTA	4.44	7.70	33.33						
TEGULA FUNEBRALIS	GASTROPODA	2.22	0.96	100.00				2.22	0.96	33.33
CERAMIUM EATONIANUM	RHODOPHYTA	2.22	3.85	33.33						
GELIDIUM PUSILLUM	RHODOPHYTA	1.11	1.92	33.33						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.56	0.96	33.33						
RED CRUSTS	RHODOPHYTA	0.56	0.96	33.33						
BANGIA FUSCO-PURPUREA	RHODOPHYTA							2.22	0.96	33.33
DIATOMS, UNIDENT.	CHRYSOPHYTA							22.22	23.45	100.00
LITTORINA SCUTULATA/PLENA	GASTROPODA							5.57	0.96	66.67
PORPHYRA SP(P).	RHODOPHYTA							1.11	1.92	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	41.11	4.19	100.00						
BOSSIELLA PLUMOSA	RHODOPHYTA	15.56	10.18	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	12.22	3.47	100.00						
TETRACLITA RUBESCENS	CIRRIPIEDIA	12.22	9.18	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	8.33	5.00	100.00						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	5.56	4.19	100.00				0.56	0.96	33.33
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.78	2.55	66.67						
LOTTIA DIGITALIS	GASTROPODA	2.78	3.47	66.67						
CHTHAMALUS SP(P).	CIRRIPIEDIA	2.22	0.96	100.00						
CUMAGLOIA ANDERSONII	RHODOPHYTA	2.22	3.85	33.33						
ANALIPUS JAPONICUS	PHAEOPHYTA	1.67	1.67	66.67						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	1.67	1.67	66.67						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.67	2.89	33.33						
ULVA CALIFORNICA	CHLOROPHYTA	1.11	0.96	66.67				3.33	5.77	33.33
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.96	33.33						
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
BINGHAMIA SP(P).	RHODOPHYTA	0.56	0.96	33.33						
BROWN CRUSTS	PHAEOPHYTA	0.56	0.96	33.33						
ENDOCLADIA MURICATA	RHODOPHYTA	0.56	0.96	33.33				3.89	6.74	33.33
PETROCELIS SP(P).	RHODOPHYTA	0.56	0.96	33.33						
DIATOMS, UNIDENT.	CHRYSOPHYTA							81.67	14.53	100.00
DIPTERA-DIPTERA LARVAE	INSECTA							0.56	0.96	33.33

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ENTEROMORPHA INTESTINALIS	CHLOROPHYTA							1.11	1.92	33.33
ENTEROMORPHA SP(P).	CHLOROPHYTA							4.44	7.70	33.33
G.A.T.G.O.R.	CHLOROPHYTA							1.11	0.96	66.67
PORPHYRA SP(P).	RHODOPHYTA							2.78	4.81	33.33
RED FILAMENTS	RHODOPHYTA							0.56	0.96	33.33
ULVA SP(P).	CHLOROPHYTA							2.22	3.85	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % COVER	STD. % DEV.	% FREQ	MEAN % COVER	STD. % DEV.	% FREQ	MEAN % COVER	STD. % DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	68.89	8.39	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	10.56	7.52	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	9.44	3.47	100.00						
POLYSIPHONIA NATHANIELLII	RHODOPHYTA	5.56	9.62	33.33						
ULVA SP(P).	CHLOROPHYTA	4.44	3.47	100.00				30.00	5.77	100.00
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	4.44	3.85	66.67				1.11	0.96	66.67
ANALIPUS JAPONICUS	PHAEOPHYTA	3.33	2.89	100.00						
BOSSIELLA PLUMOSA	RHODOPHYTA	2.78	2.55	66.67						
PETROCELIS SP(P).	RHODOPHYTA	2.22	2.55	66.67						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.11	0.96	66.67						
ENDOCLADIA MURICATA	RHODOPHYTA	1.11	0.96	66.67						
TETRACLITA RUBESCENS	CIRRIPIEDIA	1.11	0.96	66.67						
"COLLISELLA" SCABRA	GASTROPODA	1.11	1.92	33.33						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	1.11	1.92	33.33				0.56	0.96	33.33
PLOCAMUM VIOLACEUM	RHODOPHYTA	1.11	1.92	33.33						
POLYSIPHONIA HENDRYI	RHODOPHYTA	1.11	1.92	33.33						
PTEROCLADIA CALOGLOSSOIDES	RHODOPHYTA	1.11	1.92	33.33						
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
CALLITHAMNION PIKEANUM	RHODOPHYTA	0.56	0.96	33.33						
CHTHAMALUS SP(P).	CIRRIPIEDIA	0.56	0.96	33.33						
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.56	0.96	33.33						
GREEN BLADES	CHLOROPHYTA	0.56	0.96	33.33						

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
HASTOCARPUS PAPILLATUS	RHODOPHYTA	0.56	0.96	33.33						
AMPHIPODS, UNIDENT.	AMPHIPODA							0.56	0.96	33.33
DIATOMS, UNIDENT.	CHRYSOPHYTA							46.11	41.64	100.00
G.A.T.G.O.R.	CHLOROPHYTA							7.78	13.47	33.33
LITTORINA SCUTULATA/PLENA	GASTROPODA							0.56	0.96	33.33
PORPHYRA SP(P).	RHODOPHYTA							2.78	4.81	33.33
RED CRUSTS	RHODOPHYTA							0.56	0.96	33.33
RED FILAMENTS	RHODOPHYTA							1.11	1.92	33.33

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=WINTER 86 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	51.11	24.29	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	10.56	0.96	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	10.56	12.62	100.00						
TETRACLITA RUBESCENS	CIRRIPIEDIA	3.89	1.92	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	3.33	2.89	66.67						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	3.33	2.89	100.00				5.00	8.66	33.33
LOTTIA DIGITALIS	GASTROPODA	2.78	2.55	66.67						
"COLLISELLA" SCABRA	GASTROPODA	1.11	0.96	66.67						
PETROCELIS SP(P).	RHODOPHYTA	1.11	1.92	33.33						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.56	0.96	33.33						
ENDOCLADIA MURICATA	RHODOPHYTA	0.56	0.96	33.33						
LOTTIA ASHI	GASTROPODA	0.56	0.96	33.33						
LOTTIA GIGANTEA	GASTROPODA	0.56	0.96	33.33				0.56	0.96	33.33
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.56	0.96	33.33						
BOSSIELLA PLUMOSA	RHODOPHYTA							0.56	0.96	33.33
DIATOMS, UNIDENT.	CHRYSOPHYTA							8.33	7.64	66.67
LOTTIA LIMATULA	GASTROPODA							0.56	0.96	33.33
POLYSIPHONIA HENDRYI	RHODOPHYTA							0.56	0.96	33.33
PORPHYRA SP(P).	RHODOPHYTA							29.44	21.75	100.00
ULVA CALIFORNICA	CHLOROPHYTA							25.00	43.30	33.33
ULVA SP(P).	CHLOROPHYTA							32.22	27.95	66.67

M.N.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECPODA	73.89	26.71	100.00	0.28	0.86	11.11			
BALANUS GLANDULA	CIRRIPIEDIA	8.89	9.45	83.33	7.87	14.67	83.33	1.39	2.76	22.22
CHTHAMALUS SP(P).	CIRRIPIEDIA	4.91	3.45	77.78	10.19	14.07	61.11	1.30	2.77	22.22
ENDOCLADIA MURICATA	RHODOPHYTA	4.91	10.17	55.56	2.41	6.70	33.33			
POLLICIPES POLYMERUS	CIRRIPIEDIA	3.98	4.28	66.67	0.19	0.54	11.11			
PETROCELIS SP(P).	RHODOPHYTA	3.70	5.38	50.00	0.37	1.22	11.11	0.65	2.75	5.56
BOSSIELLA PLUMOSA	RHODOPHYTA	3.52	6.31	38.89	5.74	9.50	44.44	0.37	0.91	16.67
TETRACLITA RUBESCENS	CIRRIPIEDIA	2.59	5.25	33.33	0.09	0.39	5.56			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.31	3.53	38.89	8.61	13.39	72.22	10.00	13.50	66.67
MASTOCARPUS PAPILLATUS	RHODOPHYTA	1.48	2.96	33.33	0.09	0.39	5.56			
LOTTIA DIGITALIS	GASTROPODA	0.74	1.17	33.33	1.48	1.97	50.00	0.19	0.54	11.11
ANALIPUS JAPONICUS	PHAEOPHYTA	0.74	1.64	27.78	0.83	2.37	22.22			
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	0.65	1.99	16.67						
PORPHYRA PERFORATA	RHODOPHYTA	0.56	1.71	11.11	0.19	0.79	5.56	3.52	10.14	16.67
CORALLINA OFFICINALIS	RHODOPHYTA	0.56	2.36	5.56						
ULVA LOBATA	CHLOROPHYTA	0.46	1.96	5.56	0.46	1.96	5.56	17.22	31.47	33.33
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.46	0.96	22.22	0.46	0.77	27.78	0.09	0.39	5.56
"COLLISELLA" SCABRA	GASTROPODA	0.37	0.71	22.22	1.48	2.05	44.44	0.09	0.39	5.56
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.37	1.08	11.11	0.74	1.64	22.22	0.19	0.54	11.11
GELIDIUM PUSILLUM	RHODOPHYTA	0.37	1.57	5.56						
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA	0.28	0.86	11.11	0.19	0.54	11.11			
ULVA CALIFORNICA	CHLOROPHYTA	0.19	0.54	11.11	4.81	12.85	16.67	23.98	38.41	38.89

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
CERAMU EATONIANUM	RHODOPHYTA	0.19	0.79	5.56						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.19	0.79	5.56	0.65	2.75	5.56			
RED CRUSTS	RHODOPHYTA	0.19	0.79	5.56				0.09	0.39	5.56
TEGULA FUNEBRALIS	GASTROPODA	0.19	0.79	5.56	0.09	0.39	5.56	0.28	0.64	16.67
BALANUS NUBILIS	CIRRIPIEDIA	0.09	0.39	5.56						
DIATOMS, UNIDENT.	CHRYSOPHYTA	0.09	0.39	5.56	1.39	4.79	11.11	2.87	4.71	50.00
IRIDAEA FLACCIDA	RHODOPHYTA	0.09	0.39	5.56	9.07	21.80	27.78			
LEPIDOCHITONA HARTWEGII	POLYPLACOPHORA	0.09	0.39	5.56						
LOTTIA GIGANTEA	GASTROPODA	0.09	0.39	5.56						
LOTTIA PARADIGITALIS	GASTROPODA	0.09	0.39	5.56	0.09	0.39	5.56			
NUCELLA EMARGINATA	GASTROPODA	0.09	0.39	5.56	0.09	0.39	5.56			
PACHYGRAPUS CRASSIPES	DECAPODA	0.09	0.39	5.56						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.09	0.39	5.56						
PORPHYRA LANCEOLATA	RHODOPHYTA	0.09	0.39	5.56	0.56	2.36	5.56	6.11	14.04	27.78
POSTELSIA PALMAEFORMIS	PHAEOPHYTA	0.09	0.39	5.56						
BROWN BLADES	PHAEOPHYTA							0.09	0.39	5.56
CLADOPHORA COLUMBIANA	CHLOROPHYTA				2.69	7.32	22.22			
COLPOMENIA SINUOSA	PHAEOPHYTA				0.09	0.39	5.56	0.09	0.39	5.56
COLPOMENIA SP(P).	PHAEOPHYTA							0.09	0.39	5.56
CRYPTOSIPHONIA WOODII	RHODOPHYTA				0.09	0.39	5.56			
EGREGIA MENZIESII	PHAEOPHYTA				1.39	5.12	11.11	3.80	11.85	11.11
G.A.T.G.O.R.	CHLOROPHYTA							0.09	0.39	5.56

N.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
GREEN FILAMENTS	CHLOROPHYTA	0.09	0.39	5.56	0.56	2.36	5.56			
IRIDAEA SP(P).	RHODOPHYTA	0.09	0.39	5.56	0.65	2.37	11.11			
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.56	1.62	16.67	0.46	1.12	16.67			
LOTTIA LIMATULA	GASTROPODA	0.09	0.39	5.56						
LOTTIA SP(P).	GASTROPODA	0.28	0.64	16.67						
MICROCLADIA BOREALIS	RHODOPHYTA	0.09	0.39	5.56						
MOPALIA MUSCOSA	POLYPLACOPHORA				0.09	0.39	5.56			
PETALONIA FASCIA	PHAEOPHYTA	0.19	0.79	5.56	1.02	2.50	16.67			
PHAEOSTROPHION IRREGULARE	PHAEOPHYTA				0.56	2.36	5.56			
PORPHYRA SP(P).	RHODOPHYTA				2.04	5.93	11.11			
PTEROCLADIA CALOGLOSSOIDES	RHODOPHYTA	0.09	0.39	5.56						
RALFSIA SP(P).	PHAEOPHYTA	2.13	6.61	33.33	0.74	3.14	5.56			
RED FILAMENTS	RHODOPHYTA	0.19	0.54	11.11						
SCYTOSIPHON DOTYI	PHAEOPHYTA				2.04	6.85	11.11			
SCYTOSIPHON LOMENTARIA	PHAEOPHYTA	0.09	0.39	5.56	2.22	8.22	16.67			
STRONGYLOCENTROTUS PURPURATUS	ECHINOIDEA				0.09	0.39	5.56			
ULVA SP(P).	CHLOROPHYTA				1.57	5.56	11.11			

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
MYTILUS CALIFORNIANUS	PELECYPODA	95.56	3.85	100.00	1.67	1.67	66.67			
CHTHAMALUS SP(P).	CIRRIPIEDIA	6.67	2.89	100.00	13.89	6.31	100.00			
BALANUS GLANDULA	CIRRIPIEDIA	6.11	0.96	100.00	2.78	0.96	100.00			
ANTHOPEURA ELEGANTISSIMA	ANTHOZOA	2.78	4.81	33.33						
MASTOCARPUS PAPILLATUS	RHODOPHYTA	2.22	2.55	66.67						
ENDOCLADIA MURICATA	RHODOPHYTA	2.22	3.85	33.33	3.33	2.89	100.00			
"COLLISELLA" SCABRA	GASTROPODA				1.67	2.89	33.33			
COLPOMENIA SINUOSA	PHAEOPHYTA							0.56	0.96	33.33
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA				0.56	0.96	33.33	25.00	28.04	100.00
DIATOMS, UNIDENT.	CHRYSOPHYTA							5.56	9.62	33.33
IRIDAEA SP(P).	RHODOPHYTA							3.89	5.36	66.67
LITTORINA SCUTULATA/PLENA	GASTROPODA				0.56	0.96	33.33	1.11	1.92	33.33
LOTTIA DIGITALIS	GASTROPODA				2.78	1.92	100.00			
NUTTALLINA CALIFORNICA	POLYPLACOPHORA							0.56	0.96	33.33
PHAEOSTROPHION IRREGULARE	PHAEOPHYTA							3.33	5.77	33.33
SCYTOSIPHON DOTYI	PHAEOPHYTA							12.22	14.56	66.67
TEGULA FUNEBRALIS	GASTROPODA							1.11	0.96	66.67

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	94.44	0.96	100.00						
ENDOCLADIA MURICATA	RHODOPHYTA	21.11	19.17	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	7.78	2.55	100.00	5.00	4.41	100.00	1.11	1.92	33.33
PEYROCELIS SP(P).	RHODOPHYTA	5.00	8.66	33.33						
BALANUS GLANDULA	CIRRIPIEDIA	4.44	2.55	100.00	2.78	2.55	66.67	6.67	1.67	100.00
POLLICIPES POLYMERUS	CIRRIPIEDIA	3.89	0.96	100.00						
PORPHYRA PERFORATA	RHODOPHYTA	2.22	3.85	33.33				3.89	6.74	33.33
MASTOCARPUS PAPILLATUS	RHODOPHYTA	1.67	1.67	66.67						
"COLLISELLA" SCABRA	GASTROPODA	1.11	0.96	66.67						
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
IRIDAEA FLACCIDA	RHODOPHYTA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33	3.33	3.33	66.67			
NUCELLA EMARGINATA	GASTROPODA	0.56	0.96	33.33	0.56	0.96	33.33			
ANALIPUS JAPONICUS	PHAEOPHYTA				0.56	0.96	33.33			
COLPOMENIA SP(P).	PHAEOPHYTA							0.56	0.96	33.33
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA				2.78	1.92	100.00			
DIATOMS, UNIDENT.	CHRYSOPHYTA				6.67	11.55	33.33	8.33	2.89	100.00
GREEN FILAMENTS	CHLOROPHYTA							3.33	5.77	33.33
LOTTIA SP(P).	GASTROPODA				1.11	0.96	66.67			
MOPALIA MUSCOSA	POLYPLACOPHORA							0.56	0.96	33.33
PETALONIA FASCIA	PHAEOPHYTA				1.11	1.92	33.33	3.33	3.33	66.67
RALFSIA SP(P).	PHAEOPHYTA				1.11	0.96	66.67			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
SCYTOSIPHON LOMENTARIA	PHAEOPHYTA							12.78	19.32	66.67
ULVA CALIFORNICA	CHLOROPHYTA							7.78	9.48	66.67
ULVA LOBATA	CHLOROPHYTA							2.78	4.81	33.33
ULVA SP(P).	CHLOROPHYTA							7.78	13.47	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	92.22	4.19	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	25.00	10.14	100.00	28.33	30.55	100.00	1.67	2.89	33.33
PETROCELIS SP(P).	RHODOPHYTA	9.44	5.85	100.00	0.56	0.96	33.33	3.89	6.74	33.33
MASTOCARPUS PAPILLATUS	RHODOPHYTA	5.00	6.01	66.67	0.56	0.96	33.33			
CHTHAMALUS SP(P).	CIRRIPIEDIA	3.33	1.67	100.00	15.00	24.55	66.67	6.67	2.89	100.00
ENDOCLADIA MURICATA	RHODOPHYTA	2.22	1.92	66.67	10.56	15.49	66.67			
GELIDIUM PUSILLUM	RHODOPHYTA	2.22	3.85	33.33						
LOTTIA DIGITALIS	GASTROPODA	1.67	1.67	66.67						
CERAMIUH EATONIANUM	RHODOPHYTA	1.11	1.92	33.33						
POLLICIPES POLYMERUS	CIRRIPIEDIA	1.11	1.92	33.33						
TEGULA FUNEBRALIS	GASTROPODA	1.11	1.92	33.33	0.56	0.96	33.33	0.56	0.96	33.33
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33						
ANALIPUS JAPONICUS	PHAEOPHYTA				0.56	0.96	33.33			
BROWN BLADES	PHAEOPHYTA							0.56	0.96	33.33
DIATOMS, UNIDENT.	CHRYSOPHYTA							1.11	1.92	33.33
IRIDAEA FLACCIDA	RHODOPHYTA				1.67	1.67	66.67			
LITTORINA SCUTULATA/PLENA	GASTROPODA				2.78	3.47	66.67	1.67	1.67	66.67
POLYSIPHONIA HENDRYI	RHODOPHYTA				3.33	2.89	66.67			
PORPHYRA SP(P).	RHODOPHYTA							6.11	10.58	33.33
RALFSIA SP(P).	PHAEOPHYTA				1.67	1.67	66.67	4.44	7.70	33.33
RED FILAMENTS	RHODOPHYTA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	41.67	11.55	100.00						
BOSSIELLA PLUMOSA	RHODOPHYTA	15.56	6.94	100.00	8.33	6.01	100.00			
TETRACLITA RUBESCENS	CIRRIPIEDIA	12.78	5.85	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	11.67	3.33	100.00	0.56	0.96	33.33			
BALANUS GLANDULA	CIRRIPIEDIA	11.67	7.64	100.00	2.22	2.55	66.67			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	6.11	3.85	100.00	32.22	16.69	100.00	8.89	5.09	100.00
CORALLINA OFFICINALIS	RHODOPHYTA	3.33	5.77	33.33						
ANALIPUS JAPONICUS	PHAEOPHYTA	3.33	2.89	100.00	3.89	5.36	66.67			
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	2.22	0.96	100.00	1.11	0.96	66.67			
CHTHAMALUS SP(P).	CIRRIPIEDIA	2.22	3.85	33.33						
ENDOCLADIA MURICATA	RHODOPHYTA	2.22	3.85	33.33						
PETROCELIS SP(P).	RHODOPHYTA	1.11	0.96	66.67						
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA	1.11	1.92	33.33	0.56	0.96	33.33			
RED CRUSTS	RHODOPHYTA	1.11	1.92	33.33						
BALANUS NUBILIS	CIRRIPIEDIA	0.56	0.96	33.33						
DIATOMS, UNIDENT.	CHRYSOPHYTA	0.56	0.96	33.33				0.56	0.96	33.33
LEPIDOCHITONA HARTWEGII	POLYPLACOPHORA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33						
ULVA CALIFORNICA	CHLOROPHYTA	0.56	0.96	33.33	28.89	18.95	100.00	95.00	4.41	100.00
"COLLISELLA" SCABRA	GASTROPODA				0.56	0.96	33.33			
CLADOPHORA COLUMBIANA	CHLOROPHYTA				6.11	7.88	66.67			
COLPOMENIA SINUOSA	PHAEOPHYTA				0.56	0.96	33.33			

N.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % STD.			MEAN % STD.			MEAN % STD.		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	3.89	6.74	33.33						
CRYPTOSIPHONIA WOODII	RHODOPHYTA	0.56	0.96	33.33						
EGREGIA MENZIESII	PHAEOPHYTA	8.33	11.67	66.67	15.56	26.94	33.33			
G.A.T.G.O.R.	CHLOROPHYTA							0.56	0.96	33.33
IRIDAEA FLACCIDA	RHODOPHYTA	52.78	24.40	100.00						
IRIDAEA SP(P).	RHODOPHYTA	0.56	0.96	33.33						
MICROCLADIA BOREALIS	RHODOPHYTA	0.56	0.96	33.33						
PETALONIA FASCIA	PHAEOPHYTA							2.78	4.81	33.33
PORPHYRA LANCEOLATA	RHODOPHYTA	3.33	5.77	33.33	13.33	16.41	66.67			
PORPHYRA PERFORATA	RHODOPHYTA							13.89	24.06	33.33
PTEROCLADIA CALOGLOSSOIDES	RHODOPHYTA	0.56	0.96	33.33						
RED FILAMENTS	RHODOPHYTA	0.56	0.96	33.33						

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
MYTILUS CALIFORNIANUS	PELECYPODA	84.44	7.88	100.00						
BALANUS GLANDULA	CIRRIPIEDIA	6.11	4.19	100.00	10.00	7.26	100.00			
POLLICIPES POLYMERUS	CIRRIPIEDIA	3.33	1.67	100.00	0.56	0.96	33.33			
BOSSIELLA PLUMOSA	RHODOPHYTA	3.33	3.33	66.67	5.56	6.94	66.67	0.56	0.96	33.33
CHTHAMALUS SP(P).	CIRRIPIEDIA	2.78	4.81	33.33						
ULVA LOBATA	CHLOROPHYTA	2.78	4.81	33.33	2.78	4.81	33.33	64.44	43.47	100.00
POLYSIPHONIA HENDRYI	RHODOPHYTA	2.22	1.92	66.67				0.56	0.96	33.33
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.22	3.85	33.33	9.44	9.18	100.00	13.89	5.85	100.00
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.11	1.92	33.33						
ANALIPUS JAPONICUS	PHAEOPHYTA	0.56	0.96	33.33						
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA	0.56	0.96	33.33	0.56	0.96	33.33			
ENDOCLADIA MURICATA	RHODOPHYTA	0.56	0.96	33.33	0.56	0.96	33.33			
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33	1.11	0.96	66.67			
LOTTIA PARADIGITALIS	GASTROPODA	0.56	0.96	33.33						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.56	0.96	33.33	0.56	0.96	33.33			
PACHYGRAPSUS CRASSIPES	DECAPODA	0.56	0.96	33.33						
PETROCELIS SP(P).	RHODOPHYTA	0.56	0.96	33.33						
PHRAGMATOPOMA CALIFORNICA	POLYCHAETA	0.56	0.96	33.33						
PORPHYRA LANCEOLATA	RHODOPHYTA	0.56	0.96	33.33				0.56	0.96	33.33
POSTELSIA PALMAEFORMIS	PHAEOPHYTA	0.56	0.96	33.33						
TETRACLITA RUBESCENS	CIRRIPIEDIA	0.56	0.96	33.33						
ULVA CALIFORNICA	CHLOROPHYTA	0.56	0.96	33.33				16.11	27.91	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
"COLLISELLA" SCABRA	GASTROPODA				2.78	1.92	100.00			
CLADOPHORA COLUMBIANA	CHLOROPHYTA				9.44	16.36	33.33			
DIATOMS, UNIDENT.	CHRYSOPHYTA				1.67	2.89	33.33			
EGREGIA MENZIESII	PHAEOPHYTA							7.22	12.51	33.33
GREEN FILAMENTS	CHLOROPHYTA				0.56	0.96	33.33			
LOTTIA SP(P).	GASTROPODA				0.56	0.96	33.33			
RALFSIA SP(P).	PHAEOPHYTA				10.00	15.90	66.67			
RED CRUSTS	RHODOPHYTA							0.56	0.96	33.33
SCYTOSIPHON LOMENTARIA	PHAEOPHYTA				0.56	0.96	33.33	0.56	0.96	33.33
STRONGYLOCENTROTUS PURPURATUS	ECHINOIDEA							0.56	0.96	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	35.00		100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	6.67	1.67	100.00	27.22	13.37	100.00			
PETROCELIS SP(P).	RHODOPHYTA	6.11	5.36	66.67	1.67	2.89	33.33			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	5.56	3.85	100.00	6.67	7.26	100.00	12.22	5.85	100.00
POLLICIPES POLYMERUS	CIRRIPIEDIA	3.89	3.47	66.67						
BOSSIELLA PLUMOSA	RHODOPHYTA	2.22	1.92	66.67	20.56	13.98	100.00	1.67	1.67	66.67
TETRACLITA RUBESCENS	CIRRIPIEDIA	2.22	2.55	66.67	0.56	0.96	33.33			
"COLLISELLA" SCABRA	GASTROPODA	1.11	0.96	66.67	3.89	1.92	100.00	0.56	0.96	33.33
ENDOCLADIA MURICATA	RHODOPHYTA	1.11	0.96	66.67						
LOTTIA DIGITALIS	GASTROPODA	1.11	1.92	33.33	1.67	1.67	66.67	1.11	0.96	66.67
PORPHYRA PERFORATA	RHODOPHYTA	1.11	1.92	33.33	1.11	1.92	33.33	3.33	5.77	33.33
ANALIPUS JAPONICUS	PHAEOPHYTA	0.56	0.96	33.33						
LOTTIA GIGANTEA	GASTROPODA	0.56	0.96	33.33						
BALANUS GLANDULA	CIRRIPIEDIA				1.11	0.96	66.67			
CLADOPHORA COLUMBIANA	CHLOROPHYTA				0.56	0.96	33.33			
DIATOMS, UNIDENT.	CHRYSOPHYTA							1.67	*	100.00
LOTTIA LIMATULA	GASTROPODA				0.56	0.96	33.33			
LOTTIA PARADIGITALIS	GASTROPODA				0.56	0.96	33.33			
NUTTALLINA CALIFORNICA	POLYPLACOPHORA				1.11	0.96	66.67			
POLYSIPHONIA HENDRYI	RHODOPHYTA				1.11	0.96	66.67	0.56	0.96	33.33
PORPHYRA LANCEOLATA	RHODOPHYTA							22.78	26.37	66.67
PORPHYRA SP(P).	RHODOPHYTA							6.11	10.58	33.33

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=SPRING 86 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
ULVA CALIFORNICA	CHLOROPHYTA							25.00	43.30	33.33
ULVA LOBATA	CHLOROPHYTA							36.11	31.28	66.67
ULVA SP(P).	CHLOROPHYTA							1.67	2.89	33.33

H.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN % COVER	STD. DEV.	% FREQ	MEAN % COVER	STD. DEV.	% FREQ	MEAN % COVER	STD. DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	76.94	21.12	100.00	0.93	1.54	33.33			
BALANUS GLANDULA	CIRRIPIEDIA	7.41	6.08	83.33	9.72	12.44	66.67	6.02	12.77	55.56
CHTHAMALUS SP(P).	CIRRIPIEDIA	5.93	7.48	66.67	5.19	7.49	50.00	6.02	8.90	61.11
POLLICIPES POLYMERUS	CIRRIPIEDIA	5.65	8.01	55.56	0.19	0.54	11.11	0.09	0.39	5.56
ENDOCLADIA MURICATA	RHODOPHYTA	5.00	11.22	44.44	6.20	12.55	55.56			
NASTOCARPUS PAPILLATUS	RHODOPHYTA	2.96	7.24	27.78	8.61	15.43	38.89	15.65	31.34	44.44
BOSSIELLA PLUMOSA	RHODOPHYTA	2.31	6.34	27.78	10.56	16.66	50.00	2.31	4.17	38.89
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	2.13	3.17	50.00	6.02	11.99	61.11	12.96	16.00	55.56
TETRACLITA RUBESCENS	CIRRIPIEDIA	2.04	4.41	27.78	0.28	0.86	11.11			
PETROCELIS SP(P).	RHODOPHYTA	1.76	2.52	44.44	1.30	2.53	33.33	0.74	1.43	27.78
ANALIPUS JAPONICUS	PHAEOPHYTA	0.83	1.74	22.22	1.85	3.79	33.33	1.48	3.13	27.78
POLYSIPHONIA SP(P).	RHODOPHYTA	0.83	3.54	5.56	0.46	1.60	11.11			
PORPHYRA PERFORATA	RHODOPHYTA	0.74	2.00	22.22				0.37	1.57	5.56
"COLLISELLA" SCABRA	GASTROPODA	0.46	0.96	22.22	0.37	0.91	16.67	0.37	0.71	22.22
POSTELSIA PALMAEFORMIS	PHAEOPHYTA	0.46	1.96	5.56						
ULVA CALIFORNICA	CHLOROPHYTA	0.46	1.96	5.56	1.30	4.41	11.11	5.00	12.42	16.67
IRIDAEA FLACCIDA	RHODOPHYTA	0.46	1.60	11.11	6.76	15.81	33.33	7.69	12.33	50.00
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA	0.37	1.22	11.11	0.28	0.86	11.11	0.09	0.39	5.56
RALFSIA SP(P).	PHAEOPHYTA	0.37	1.22	11.11	3.52	7.71	50.00	2.13	4.98	27.78
LOTTIA DIGITALIS	GASTROPODA	0.28	0.64	16.67	1.48	2.35	38.89	0.46	0.96	22.22
LOTTIA PARADIGITALIS	GASTROPODA	0.28	0.64	16.67	0.37	1.22	11.11	0.19	0.54	11.11
NUCELLA EMARGINATA	GASTROPODA	0.28	0.64	16.67	0.19	0.54	11.11			

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.28	0.86	11.11	4.35	9.36	33.33	1.30	3.16	33.33
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.28	0.86	11.11	0.28	0.86	11.11	0.09	0.39	5.56
LITTORINA SCUTULATA/PLENA	GASTROPODA	0.28	0.86	11.11	0.65	1.99	16.67	0.28	0.86	11.11
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.28	0.86	11.11	0.37	0.71	22.22	0.09	0.39	5.56
CORALLINA OFFICINALIS	RHODOPHYTA	0.28	1.18	5.56	0.09	0.39	5.56			
PLOCAMUM VIOLACEUM	RHODOPHYTA	0.28	1.18	5.56	0.09	0.39	5.56	0.09	0.39	5.56
G.A.T.G.O.R.	CHLOROPHYTA	0.19	0.54	11.11	1.02	3.92	11.11	0.83	2.23	16.67
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.19	0.54	11.11	1.11	2.14	33.33	2.59	10.18	16.67
TEGULA FUNEBRALIS	GASTROPODA	0.19	0.79	5.56	0.28	0.86	11.11	0.74	2.08	16.67
ULVA SP(P).	CHLOROPHYTA	0.19	0.79	5.56	0.56	1.98	11.11	4.44	12.97	22.22
GELIDIUM PUSILLUM	RHODOPHYTA	0.09	0.39	5.56						
MYTILUS EDULIS	PELECYPODA	0.09	0.39	5.56						
SEMIBALANUS CARIOSUS	CIRRIPEDIA	0.09	0.39	5.56	0.09	0.39	5.56			
BOSSIELLA SP(P).	RHODOPHYTA							0.19	0.79	5.56
CERAMHUM EATONIANUM	RHODOPHYTA				0.09	0.39	5.56	0.09	0.39	5.56
CLADOPHORA SP(P).	CHLOROPHYTA				0.09	0.39	5.56	0.09	0.39	5.56
CLADOPHORA STIMPSONII	CHLOROPHYTA				0.19	0.79	5.56			
COLPOMENIA PEREGRINA	PHAEOPHYTA							0.09	0.39	5.56
COLPOMENIA SINUOSA	PHAEOPHYTA				0.09	0.39	5.56			
COLPOMENIA SP(P).	PHAEOPHYTA							0.56	1.62	11.11
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA				3.52	6.21	44.44	0.28	0.86	11.11
DIATOMS, UNIDENT.	CHRYSTOPHYTA				0.65	2.37	11.11			

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=ALL STATIONS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ	MEAN %	STD.	% FREQ
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
EGREGIA MENZIESII	PHAEOPHYTA	0.19	0.79	5.56	11.57	23.21	33.33			
FUCUS DISTICHUS	PHAEOPHYTA	0.56	1.98	11.11						
GELIDIUM COULTERI	RHODOPHYTA	0.19	0.79	5.56						
GIGARTINA CANALICULATA	RHODOPHYTA	0.09	0.39	5.56						
IRIDAEA CORDATA	RHODOPHYTA	0.93	3.14	16.67	0.19	0.79	5.56			
IRIDAEA HETEROCARPA	RHODOPHYTA				0.56	2.36	5.56			
LOTTIA PELTA	GASTROPODA				0.19	0.54	11.11			
LOTTIA SP(P).	GASTROPODA	0.09	0.39	5.56	0.19	0.54	11.11			
ODONTHALIA FLOCCOSA	RHODOPHYTA	0.37	1.57	5.56						
PAGURUS SP(P).	DECAPODA				0.09	0.39	5.56			
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA				0.09	0.39	5.56			
PETALONIA FASCIA	PHAEOPHYTA	0.19	0.54	11.11	1.30	3.21	16.67			
PHAEOSTROPHION IRREGULARE	PHAEOPHYTA				0.09	0.39	5.56			
PORPHYRA LANCEOLATA	RHODOPHYTA				2.13	7.09	16.67			
PTEROSIPHONIA BIPINNATA	RHODOPHYTA	2.96	8.79	11.11						
PTEROSIPHONIA DENDROIDEA	RHODOPHYTA	0.56	5.56	5.56						
RED CRUSTS	RHODOPHYTA	0.57	0.57	16.67	0.09	0.39	5.56			
RED FILAMENTS	RHODOPHYTA				0.19	0.79	5.56			
RHODOGLOSSUM AFFINE	RHODOPHYTA				0.56	1.62	11.11			
STRONGYLOCENTROTUS PURPURATUS	ECHINOIDEA				0.09	0.39	5.56			
ULVA LOBATA	CHLOROPHYTA	0.09	0.39	5.56	1.76	5.32	11.11			

M.N.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	96.67	2.89	100.00	1.11	1.92	33.33			
BALANUS GLANDULA	CIRRIPIEDIA	9.44	2.55	100.00	21.11	15.75	100.00	18.89	29.88	66.67
ENDOCLADIA MURICATA	RHODOPHYTA	2.22	2.55	66.67	8.33	6.01	100.00			
CHTHAMALUS SP(P).	CIRRIPIEDIA	1.67	1.67	66.67	7.22	7.52	66.67	1.11	0.96	66.67
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	1.67	2.89	33.33	1.11	1.92	33.33			
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.96	33.33				0.56	0.96	33.33
IRIDAEA FLACCIDA	RHODOPHYTA	0.56	0.96	33.33	1.11	1.92	33.33	21.11	20.84	100.00
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33	1.11	1.92	33.33			
LOTTIA PARADIGITALIS	GASTROPODA	0.56	0.96	33.33						
PORPHYRA PERFORATA	RHODOPHYTA	0.56	0.96	33.33				2.22	3.85	33.33
RALFSIA SP(P).	PHAEOPHYTA	0.56	0.96	33.33	0.56	0.96	33.33	1.67	2.89	33.33
SEMIBALANUS CARIOSUS	CIRRIPIEDIA	0.56	0.96	33.33						
ANALIPUS JAPONICUS	PHAEOPHYTA							1.11	1.92	33.33
CORALLINA VANCOUVERIENSIS	RHODOPHYTA							0.56	0.96	33.33
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA				1.11	0.96	66.67	4.44	7.70	33.33
GIGARTINA CANALICULATA	RHODOPHYTA				0.56	0.96	33.33			
LITTORINA SCUTULATA/PLENA	GASTROPODA				2.78	4.81	33.33	1.11	1.92	33.33
LOTTIA SP(P).	GASTROPODA							0.56	0.96	33.33
MASTOCARPUS PAPILLATUS	RHODOPHYTA				15.56	17.35	100.00	8.33	4.41	100.00
PAGURUS SP(P).	DECAPODA							0.56	0.96	33.33
POLYSIPHONIA HENDRYI	RHODOPHYTA				1.11	1.92	33.33	0.56	0.96	33.33
PORPHYRA LANCEOLATA	RHODOPHYTA							10.00	17.32	33.33

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=KIBESILLAH HILL

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
RED CRUSTS	RHODOPHYTA				0.56	0.96	33.33	0.56	0.96	33.33
TEGULA FUNEBRALIS	GASTROPODA							0.56	0.96	33.33

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %		STD. %	MEAN %		STD. %	MEAN %		STD. %
		COVER	DEV.		COVER	DEV.		COVER	DEV.	
MYTILUS CALIFORNIANUS	PELECYPODA	82.78	6.94	100.00	0.56	0.96	33.33			
ENDOCLADIA MURICATA	RHODOPHYTA	23.33	20.82	66.67	2.78	1.92	100.00			
POLLICIPES POLYMERUS	CIRRIPIEDIA	8.33	13.02	66.67	0.56	0.96	33.33			
BALANUS GLANDULA	CIRRIPIEDIA	7.78	6.31	100.00				5.56	2.55	100.00
CHTHAMALUS SP(P).	CIRRIPIEDIA	5.56	5.09	66.67	9.44	7.70	100.00	6.11	5.09	100.00
MASTOCARPUS PAPILLATUS	RHODOPHYTA	3.33	3.33	66.67	0.56	0.96	33.33	2.22	1.92	66.67
IRIDAEA FLACCIDA	RHODOPHYTA	2.22	3.85	33.33				10.56	6.94	100.00
PETROCELIS SP(P).	RHODOPHYTA	1.67	1.67	66.67	0.56	0.96	33.33			
RALFSIA SP(P).	PHAEOPHYTA	1.67	2.89	33.33	16.11	14.37	100.00	10.00	9.28	66.67
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.96	33.33				0.56	0.96	33.33
ANALIPUS JAPONICUS	PHAEOPHYTA	0.56	0.96	33.33	1.67	2.89	33.33	1.67	1.67	66.67
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	0.56	0.96	33.33	1.11	1.92	33.33			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	0.56	0.96	33.33	1.67	1.67	66.67			
LOTTIA PARADIGITALIS	GASTROPODA	0.56	0.96	33.33	2.22	2.55	66.67			
NUCELLA EMARGINATA	GASTROPODA	0.56	0.96	33.33	0.56	0.96	33.33			
PORPHYRA PERFORATA	RHODOPHYTA	0.56	0.96	33.33						
BOSSIELLA PLUMOSA	RHODOPHYTA				2.78	3.47	66.67			
DIATOMS, UNIDENT.	CHRYSTOPHYTA				3.33	5.77	33.33			
FUCUS DISTICHUS	PHAEOPHYTA				0.56	0.96	33.33			
G.A.T.G.O.R.	CHLOROPHYTA				0.56	0.96	33.33			
IRIDAEA CORDATA	RHODOPHYTA				0.56	0.96	33.33			
LOTTIA DIGITALIS	GASTROPODA				2.78	3.47	66.67	1.11	1.92	33.33

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=SEA RANCH

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA Pelta	GASTROPODA							0.56	0.96	33.33
LOTTIA SP(P).	GASTROPODA				0.56	0.96	33.33			
ODONTHALIA FLOCCOSA	RHODOPHYTA				2.22	3.85	33.33			
PETALONIA FASCIA	PHAEOPHYTA				1.11	0.96	66.67	7.78	3.47	100.00
POLYSIPHONIA HENDRYI	RHODOPHYTA				1.11	1.92	33.33	0.56	0.96	33.33
PORPHYRA LANCEOLATA	RHODOPHYTA							1.67	2.89	33.33
RED CRUSTS	RHODOPHYTA				0.56	0.96	33.33			
ULVA SP(P).	CHLOROPHYTA							0.56	0.96	33.33

N.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	93.89	6.74	100.00	0.56	0.96	33.33			
CHTHAMALUS SP(P).	CIRRIPIEDIA	18.33	7.64	100.00	8.33	14.43	33.33	17.22	12.51	100.00
MASTOCARPUS PAPILLATUS	RHODOPHYTA	14.44	13.57	100.00	35.56	11.34	100.00	83.33	1.67	100.00
BALANUS GLANDULA	CIRRIPIEDIA	4.44	2.55	100.00	18.89	20.16	100.00	10.00	8.66	100.00
PETROCELIS SP(P).	RHODOPHYTA	3.89	3.85	100.00	2.22	1.92	66.67	0.56	0.96	33.33
PORPHYRA PERFORATA	RHODOPHYTA	2.78	4.81	33.33						
ENDOCLADIA MURICATA	RHODOPHYTA	1.67	1.67	66.67	24.44	25.02	66.67			
LITTORINA SCUTULATA/PLENA	GASTROPODA	1.67	1.67	66.67	1.11	0.96	66.67	0.56	0.96	33.33
NUCELLA EMARGINATA	GASTROPODA	1.11	0.96	66.67	0.56	0.96	33.33			
TEGULA FUNEBRALIS	GASTROPODA	1.11	1.92	33.33	1.67	1.67	66.67	3.89	4.19	66.67
"COLLISELLA" SCABRA	GASTROPODA	0.56	0.96	33.33						
ANTHOPELURA ELEGANTISSIMA	ANTHOZOA	0.56	0.96	33.33				0.56	0.96	33.33
GELIDIUM PUSILLUM	RHODOPHYTA	0.56	0.96	33.33						
ANALIPUS JAPONICUS	PHAEOPHYTA				0.56	0.96	33.33			
CERAMIMUM EATONIANUM	RHODOPHYTA				0.56	0.96	33.33			
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA				0.56	0.96	33.33			
FUCUS DISTICHUS	PHAEOPHYTA				2.78	4.81	33.33			
GELIDIUM COULTERI	RHODOPHYTA				1.11	1.92	33.33			
IRIDAEA CORDATA	RHODOPHYTA				5.00	7.26	66.67	1.11	1.92	33.33
IRIDAEA FLACCIDA	RHODOPHYTA				2.22	3.85	33.33	1.11	1.92	33.33
LOTTIA DIGITALIS	GASTROPODA				0.56	0.96	33.33			
LOTTIA PARADIGITALIS	GASTROPODA							0.56	0.96	33.33

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=BOLINAS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
LOTTIA SP(P).	GASTROPODA							0.56	0.96	33.33
PORPHYRA LANCEOLATA	RHODOPHYTA							1.11	1.92	33.33
PTEROSIPHONIA BIPINNATA	RHODOPHYTA				17.78	16.19	66.67			
PTEROSIPHONIA DENDROIDEA	RHODOPHYTA				5.56	9.62	33.33			
RALFSIA SP(P).	PHAEOPHYTA				1.11	1.92	33.33			

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	52.78	16.36	100.00	3.33	1.67	100.00			
BALANUS GLANDULA	CIRRIPIEDIA	11.11	5.09	100.00	3.33	3.33	66.67			
TETRACLITA RUBESCENS	CIRRIPIEDIA	10.56	5.36	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	10.00	3.33	100.00				0.56	0.96	33.33
BOSSIELLA PLUMOSA	RHODOPHYTA	10.00	14.53	66.67	23.33	24.55	100.00	5.56	3.47	100.00
ANALIPUS JAPONICUS	PHAEOPHYTA	4.44	0.96	100.00	8.33	5.77	100.00	6.11	5.85	66.67
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	4.44	2.55	100.00	30.00	13.23	100.00	28.89	14.56	100.00
CHTHAMALUS SP(P).	CIRRIPIEDIA	3.89	3.47	66.67	1.11	1.92	33.33			
ENDOCLADIA MURICATA	RHODOPHYTA	2.22	3.85	33.33						
CORALLINA OFFICINALIS	RHODOPHYTA	1.67	2.89	33.33	0.56	0.96	33.33			
PETROCELIS SP(P).	RHODOPHYTA	1.67	2.89	33.33						
ULVA SP(P).	CHLOROPHYTA	1.11	1.92	33.33	3.33	4.41	66.67	25.56	25.02	66.67
CLADOPHORA COLUMBIANA	CHLOROPHYTA	0.56	0.96	33.33	5.56	5.85	66.67	5.00	7.26	66.67
G.A.T.G.O.R.	CHLOROPHYTA	0.56	0.96	33.33	5.56	9.62	33.33	4.44	4.19	66.67
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33	1.67	2.89	33.33			
MYTILUS EDULIS	PELECYPODA	0.56	0.96	33.33						
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	0.56	0.96	33.33	0.56	0.96	33.33			
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.56	0.96	33.33	1.11	0.96	66.67			
PORPHYRA PERFORATA	RHODOPHYTA	0.56	0.96	33.33						
"COLLISELLA" SCABRA	GASTROPODA				0.56	0.96	33.33	0.56	0.96	33.33
CERAMIUH EATONIANUM	RHODOPHYTA							0.56	0.96	33.33
CLADOPHORA STIMPSONII	CHLOROPHYTA				1.11	1.92	33.33			

N.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=PESCADERO ROCKS

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
COLPOMENIA PEREGRINA	PHAEOPHYTA							0.56	0.96	33.33
COLPOMENIA SP(P).	PHAEOPHYTA							3.33	2.89	66.67
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA				6.67	5.00	100.00	1.67	1.67	66.67
EGREGIA MENZIESII	PHAEOPHYTA				1.11	1.92	33.33	43.89	40.56	66.67
IRIDAEA FLACCIDA	RHODOPHYTA				36.11	23.35	100.00	13.33	15.28	66.67
IRIDAEA HETEROCARPA	RHODOPHYTA							3.33	5.77	33.33
PHAEOSTROPHION IRREGULARE	PHAEOPHYTA							0.56	0.96	33.33
PLOCANIUM VIOLACEUM	RHODOPHYTA				0.56	0.96	33.33			
RALFSIA SP(P).	PHAEOPHYTA				0.56	0.96	33.33	0.56	0.96	33.33
RHODOGLOSSUM AFFINE	RHODOPHYTA							3.33	2.89	66.67
SEMIBALANUS CARIOSUS	CIRRIPIEDIA *				0.56	0.96	33.33			
STRONGYLOCENTROTUS PURPURATUS	ECHINOIDEA							0.56	0.96	33.33
ULVA LOBATA	CHLOROPHYTA				0.56	0.96	33.33	10.56	10.05	66.67

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	85.00	7.64	100.00						
POLLICIPES POLYMERUS	CIRRIPIEDIA	9.44	13.57	66.67	0.56	0.96	33.33			
BALANUS GLANDULA	CIRRIPIEDIA	7.22	11.10	66.67	6.11	5.85	66.67			
POLYSIPHONIA SP(P).	RHODOPHYTA	5.00	8.66	33.33	2.22	3.85	33.33			
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	3.33	4.41	66.67	0.56	0.96	33.33	35.56	6.94	100.00
POSTELSIA PALMAEFORMIS	PHAEOPHYTA	2.78	4.81	33.33						
ULVA CALIFORNICA	CHLOROPHYTA	2.78	4.81	33.33	7.78	9.48	66.67	30.00	13.64	100.00
PLOCAMUM VIOLACEUM	RHODOPHYTA	1.67	2.89	33.33						
CORALLINA VANCOUVERIENSIS	RHODOPHYTA	1.11	1.92	33.33						
BOSSIELLA PLUMOSA	RHODOPHYTA	0.56	0.96	33.33	6.67	11.55	33.33	0.56	0.96	33.33
G.A.T.G.O.R.	CHLOROPHYTA	0.56	0.96	33.33						
LOTTIA DIGITALIS	GASTROPODA	0.56	0.96	33.33	2.22	3.85	33.33	0.56	0.96	33.33
"COLLISELLA" SCABRA	GASTROPODA				0.56	0.96	33.33			
ANALIPUS JAPONICUS	PHAEOPHYTA				0.56	0.96	33.33			
CLADOPHORA COLUMBIANA	CHLOROPHYTA				8.89	12.62	66.67	0.56	0.96	33.33
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA				12.78	9.77	100.00			
EGREGIA MENZIESII	PHAEOPHYTA							21.11	22.63	66.67
ENDOCLADIA MURICATA	RHODOPHYTA				1.67	1.67	66.67			
NUTTALLINA CALIFORNICA	POLYPLACOPHORA				0.56	0.96	33.33			
PELVETIA-PELVETIOPSIS SP(P).	PHAEOPHYTA							0.56	0.96	33.33
PETROCELIS SP(P).	RHODOPHYTA				3.33	5.77	33.33	1.11	0.96	66.67
POLYSIPHONIA HENDRYI	RHODOPHYTA				0.56	0.96	33.33			

M.M.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=PT. SIERRA NEVADA

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %			MEAN %			MEAN %		
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
RALFSIA SP(P).	PHAEOPHYTA				2.22	1.92	66.67			
RED CRUSTS	RHODOPHYTA				1.11	1.92	33.33			

M.H.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86 SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
MYTILUS CALIFORNIANUS	PELECYPODA	50.56	16.78	100.00						
CHTHAMALUS SP(P).	CIRRIPIEDIA	6.11	7.70	100.00	5.00	6.01	66.67	11.67	10.41	100.00
POLLICIPES POLYMERUS	CIRRIPIEDIA	6.11	4.81	100.00						
CRUSTOSE CORALLINES, UNIDENT.	RHODOPHYTA	4.44	4.81	100.00	2.78	0.96	100.00	8.89	8.55	100.00
BALANUS GLANDULA	CIRRIPIEDIA	4.44	7.70	33.33	8.89	8.39	66.67	1.67	1.67	66.67
BOSSIELLA PLUMOSA	RHODOPHYTA	3.33	3.33	66.67	30.56	17.82	100.00	7.78	6.74	100.00
PETROCELIS SP(P).	RHODOPHYTA	3.33	2.89	66.67	1.67	1.67	66.67	2.78	2.55	66.67
TETRACLITA RUBESCENS	CIRRIPIEDIA	1.67	1.67	66.67	1.67	1.67	66.67			
"COLLISELLA" SCABRA	GASTROPODA	1.11	1.92	33.33	1.11	1.92	33.33	0.56	0.96	33.33
CLADOPHORA COLUMBIANA	CHLOROPHYTA	1.11	1.92	33.33	11.67	18.78	66.67	2.22	0.96	100.00
NUTTALLINA CALIFORNICA	POLYPLACOPHORA	1.11	1.92	33.33	1.11	0.96	66.67	0.56	0.96	33.33
ENDOCLADIA MURICATA	RHODOPHYTA	0.56	0.96	33.33						
LOTTIA PARADIGITALIS	GASTROPODA	0.56	0.96	33.33				0.56	0.96	33.33
POLYSIPHONIA HENDRYI	RHODOPHYTA	0.56	0.96	33.33	2.78	4.81	33.33	14.44	25.02	33.33
ANTHOPLEURA ELEGANTISSIMA	ANTHOZOA				0.56	0.96	33.33			
BOSSIELLA SP(P).	RHODOPHYTA							1.11	1.92	33.33
CLADOPHORA SP(P).	CHLOROPHYTA				0.56	0.96	33.33	0.56	0.96	33.33
COLPOMENIA SINUOSA	PHAEOPHYTA				0.56	0.96	33.33			
CORALLINA VANCOUVERIENSIS	RHODOPHYTA				0.56	0.96	33.33			
CYLINDROCARPUS RUGOSUS	PHAEOPHYTA				1.11	1.92	33.33			
DIATOMS, UNIDENT.	CHRYSOPHYTA				0.56	0.96	33.33			
EGREGIA MENZIESII	PHAEOPHYTA							4.44	6.31	66.67

M.W.S. INTERTIDAL SPECIES-RANKED SPECIES ABUNDANCES
(MYTILUS ASSEMBLAGE)

PERIOD=FALL 86

SITE=DIABLO CANYON

SPECIES NAME	TAXON GROUP	UNDISTURBED			SPRING CLEARED			FALL CLEARED		
		MEAN %	STD.		MEAN %	STD.		MEAN %	STD.	
		COVER	DEV.	% FREQ	COVER	DEV.	% FREQ	COVER	DEV.	% FREQ
G.A.T.G.O.R.	CHLOROPHYTA							0.56	0.96	33.33
IRIDAEA FLACCIDA	RHODOPHYTA				1.11	1.92	33.33			
LOTTIA DIGITALIS	GASTROPODA				0.56	0.96	33.33	1.11	0.96	66.67
LOTTIA Pelta	GASTROPODA							0.56	0.96	33.33
PLOCANIUM VIOLACEUM	RHODOPHYTA							0.56	0.96	33.33
POLYSIPHONIA SP(P).	RHODOPHYTA				0.56	0.96	33.33			
RALFSIA SP(P).	PHAEOPHYTA				0.56	0.96	33.33	0.56	0.96	33.33
RED FILAMENTS	RHODOPHYTA							1.11	1.92	33.33
ULVA SP(P).	CHLOROPHYTA							0.56	0.96	33.33

PLEASE PAGE

APPENDIX E

Two-Way Analysis of Vairance Results

APPENDIX E

Two-Way Analysis of Variance By Year (1985 vs. 1986) and Season of Clearing (Spring vs. Fall)

TABLE OF CONTENTS

		<u>Page</u>
<i>Endocladia/Mastocarpus papillatus</i> Assemblage		
<u>Species</u>	<u>Site</u>	
<i>Cladophora columbiana</i>	Pescadero Rocks	III-165
GATGOR	Pescadero Rocks	III-166
<i>Ralfsia</i> sp(p).	Diablo Canyon	III-167
<i>Hesperophycus harveyanus</i>	Pt. Sierra Nevada	III-168
<i>Fucus distichus</i>	Bolinas	III-169
Crustose corallines, unident.	Pescadero Rocks	III-170
<i>Endocladia muricata</i>	Kibesillah Hill	III-171
<i>Endocladia muricata</i>	Pt. Sierra Nevada	III-172
<i>Rhodoglossum affine</i>	Pescadero Rocks	III-173
<i>Mastocarpus papillatus</i>	Bolinas	III-174
<i>Mastocarpus papillatus</i>	Pt. Sierra Nevada	III-175
<i>Mastocarpus papillatus</i>	Diablo Canyon	III-176
<i>Petrocelis</i> sp(p).	Bolinas	III-177
<i>Petrocelis</i> sp(p).	Diablo Canyon	III-178
<i>Chthamalus</i> sp(p).	Kibesillah Hill	III-179
<i>Chthamalus</i> sp(p).	Sea Ranch	III-180
<i>Balanus glandula</i>	Pt. Sierra Nevada	III-181
<i>Mytilus californianus</i>	Pescadero Rocks	III-182
Grazer limpets	Diablo Canyon	III-183
<i>Littorina scutulata/plena</i>	Sea Ranch	III-184
<i>Littorina scutulata/plena</i>	Pescadero Rocks	III-185
<i>Littorina scutulata/plena</i>	Pt. Sierra Nevada	III-186
<i>Littorina scutulata/plena</i>	Diablo Canyon	III-187
<i>Nucella emarginata</i>	Sea Ranch	III-188
<i>Nucella emarginata</i>	Diablo Canyon	III-189

TABLE OF CONTENTS (Continued)

<i>Mytilus</i> Assemblage		Page
<u>Species</u>	<u>Site</u>	
Crustose corallines, unident.	Pescadero Rocks	III-190
<i>Corallina vancouveriensis</i>	Pescadero Rocks	III-191
<i>Corallina vancouveriensis</i>	Pt. Sierra Nevada	III-192
<i>Mastocarpus papillatus</i>	Bolinas	III-193
<i>Petrocelis</i> sp(p).	Pescadero Rocks	III-194
<i>Chthamalus</i> sp(p).	Kibesillah Hill	III-195
<i>Chthamalus</i> sp(p).	Bolinas	III-196
<i>Chthamalus</i> sp(p).	Diablo Canyon	III-197
<i>Balanus glandula</i>	Kibesillah Hill	III-198
<i>Balanus glandula</i>	Bolinas	III-199
<i>Mytilus californianus</i>	Kibesillah Hill	III-200
<i>Mytilus californianus</i>	Sea Ranch	III-201
<i>Mytilus californianus</i>	Pescadero Rocks	III-202
Chitons	Kibesillah Hill	III-203
Chitons	Diablo Canyon	III-204
Grazer Limpets	Kibesillah Hill	III-205
Grazer Limpets	Bolinas	III-206
Grazer Limpets	Pt. Sierra Nevada	III-207
Grazer Limpets	Diablo Canyon	III-208
<i>Tegula funebris</i>	Kibesillah Hill	III-209
<i>Littorina scutulata/plena</i>	Kibesillah Hill	III-210
<i>Littorina scutulata/plena</i>	Bolinas	III-211
<i>Littorina scutulata/plena</i>	Pescadero Rocks	III-212
<i>Nucella emarginata</i>	Bolinas	III-213
<i>Nucella emarginata</i>	Pt. Sierra Nevada	III-214

KEY TO CODES

assem E = *Endocladia/Mastocarpus papillatus* assemblage

assem M = *Mytilus* assemblage

Site A = Kibesillah Hill

Site B = Sea Ranch

Site C = Bolinas

Site D = Pescadero Rocks

Site E = Pt. Sierra Nevada

Site F = Diablo Canyon

By-> assem=E Cladophora columbiana site=D

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	600.564385	200.188128	9.1160	0.00584
Error	8	175.679267	21.959908		
Total	11	776.243653			

R-Square	C.V.	Std Dev	pctcover Mean
0.773680	46.812831	4.686140	10.010375

Source	Df	Anova SS	F-Value	Prob > F
year	1	8.842497	0.40267	0.54343
season	1	507.552187	23.1127	0.00134
year*season	1	84.169701	3.83288	0.08595

Sorted Means List For Class Variable ->year

Alpha=.05 Df=8 MSE= 21.959908

	N	Mean
85	6	10.868789
86	6	9.151961

Sorted Means List For Class Variable ->season

Alpha=.05 Df=8 MSE= 21.959908

	N	Mean
fall	6	16.513914
spring	6	3.506837

By-> assem=E G.A.T.G.O.R. site=D

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	380.601379	126.867126	2.0439	0.18632
Error	8	496.568734	62.071092		
Total	11	877.170113			

R-Square	C.V.	Std Dev	pctcover Mean
0.433897	86.475964	7.878521	9.110648

Source	Df	Anova SS	F-Value	Prob > F
year	1	249.586842	4.02098	0.07987
season	1	36.452554	0.58727	0.46549
year*season	1	94.561982	1.52345	0.25212

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 62.071092

	N	Mean
85	6	13.671230
86	6	4.550067

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 62.071092

	N	Mean
fall	6	10.853552
spring	6	7.367745

By-> assem=E Ralfsia sp(p). site=F

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	545.098423	181.699474	2.9234	0.10003
Error	8	497.227556	62.153445		
Total	11	1042.325979			

R-Square	C.V.	Std Dev	pctcover Mean
0.522963	135.740970	7.883746	5.807934

Source	Df	Anova SS	F-Value	Prob > F
year	1	404.785131	6.5127	0.03407
season	1	70.156646	1.12877	0.31906
year*season	1	70.156646	1.12877	0.31906

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 62.153445

	N	Mean
86	6	11.615867
85	6	0.000000

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 62.153445

	N	Mean
spring	6	8.225864
fall	6	3.390003

By-> assem=E Hesperophycus harveyanus site=E

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	255.471939	85.157313	1.9630	0.19819
Error	8	347.041182	43.380148		
Total	11	602.513121			

R-Square	C.V.	Std Dev	pctcover Mean
0.424011	121.197688	6.586361	5.434395

Source	Df	Anova SS	F-Value	Prob > F
year	1	9.384431	0.21633	0.65425
season	1	162.595047	3.74814	0.08889
year*season	1	83.492462	1.92467	0.20277

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 43.380148

	N	Mean
86	6	6.318723
85	6	4.550067

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 43.380148

	N	Mean
spring	6	9.115371
fall	6	1.753418

By-> assem=E Fucus distichus site=C

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	2216.065283	738.688428	6.6193	0.01468
Error	8	892.757367	111.594671		
Total	11	3108.822650			

R-Square	C.V.	Std Dev	pctcover Mean
0.712831	29.320357	10.563838	36.029022

Source	Df	Anova SS	F-Value	Prob > F
year	1	580.419458	5.2011	0.05202
season	1	1224.377419	10.9716	0.01066
year*season	1	411.268406	3.68538	0.09115

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 111.594671

	N	Mean
86	6	42.983753
85	6	29.074290

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 111.594671

	N	Mean
fall	6	46.130084
spring	6	25.927960

By-> assem=E Crustose corallines, unident. site=D

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	406.303818	135.434606	2.3576	0.14773
Error	8	459.553893	57.444237		
Total	11	865.857711			

R-Square	C.V.	Std Dev	pctcover Mean
0.469250	34.024110	7.579198	22.275961

Source	Df	Anova SS	F-Value	Prob > F
year	1	87.762683	1.52779	0.25150
season	1	30.601257	0.53271	0.48629
year*season	1	287.939878	5.01251	0.05552

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 57.444237

	N	Mean
85	6	24.980320
86	6	19.571603

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 57.444237

	N	Mean
fall	6	23.872866
spring	6	20.679057

By-> assem=E Endocladia muricata site=A

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	241.858253	80.619418	2.9995	0.09516
Error	8	215.018116	26.877264		
Total	11	456.876369			

R-Square	C.V.	Std Dev	pctcover Mean
0.529374	13.195580	5.184329	39.288373

Source	Df	Anova SS	F-Value	Prob > F
year	1	21.402566	0.79631	0.39825
season	1	0.497437	0.0185077	0.89515
year*season	1	219.958251	8.1838	0.02113

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 26.877264

	N	Mean
86	6	40.623868
85	6	37.952878

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 26.877264

	N	Mean
spring	6	39.491974
fall	6	39.084773

By-> assem=E Endocladia muricata site=E

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	3282.579549	1094.193183	9.3040	0.00549
Error	8	940.829599	117.603700		
Total	11	4223.409148			

R-Square	C.V.	Std Dev	pctcover Mean
0.777235	21.751412	10.844524	49.856644

Source	Df	Anova SS	F-Value	Prob > F
year	1	101.097833	0.85965	0.38096
season	1	2917.157749	24.805	0.00108
year*season	1	264.323967	2.24758	0.17221

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 117.603700

	N	Mean
85	6	52.759198
86	6	46.954090

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 117.603700

	N	Mean
spring	6	65.448196
fall	6	34.265092

By-> assem=E Rhodoglossum affine site=D

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	1025.798344	341.932781	3.5646	0.06684
Error	8	767.384963	95.923120		
Total	11	1793.183307			

R-Square	C.V.	Std Dev	pctcover Mean
0.572054	106.740187	9.794035	9.175583

Source	Df	Anova SS	F-Value	Prob > F
year	1	7.751184	0.08081	0.78343
season	1	1010.295976	10.5324	0.01178
year*season	1	7.751184	0.08081	0.78343

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 95.923120

	N	Mean
85	6	9.979282
86	6	8.371884

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 95.923120

	N	Mean
fall	6	18.351167
spring	6	0.000000

By-> assem=E Mastocarpus papillatus site=C

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	925.805610	308.601870	5.1711	0.02811
Error	8	477.416399	59.677050		
Total	11	1403.222009			

R-Square	C.V.	Std Dev	pctcover Mean
0.659771	20.695567	7.725092	37.327279

Source	Df	Anova SS	F-Value	Prob > F
year	1	542.600243	9.0923	0.01668
season	1	380.148910	6.3701	0.03559
year*season	1	3.056458	0.0512166	0.82663

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 59.677050

	N	Mean
85	6	44.051614
86	6	30.602944

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 59.677050

	N	Mean
fall	6	42.955696
spring	6	31.698862

By-> assem=E Mastocarpus papillatus site=E

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	354.793974	118.264658	2.4788	0.13549
Error	8	381.674185	47.709273		
Total	11	736.468159			

R-Square	C.V.	Std Dev	pctcover Mean
0.481751	47.368908	6.907190	14.581696

Source	Df	Anova SS	F-Value	Prob > F
year	1	110.124120	2.30823	0.16717
season	1	0.006509	1.364e-04	0.99097
year*season	1	244.663345	5.1282	0.05334

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 47.709273

	N	Mean
85	6	17.611054
86	6	11.552338

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 47.709273

	N	Mean
spring	6	14.604985
fall	6	14.558406

By-> assem=E Mastocarpus papillatus site=F

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	404.739167	134.913056	2.6301	0.12190
Error	8	410.351222	51.293903		
Total	11	815.090389			

R-Square	C.V.	Std Dev	pctcover Mean
0.496557	24.614577	7.161976	29.096483

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 57.188137

	N	Mean
fall	6	39.867082
spring	6	34.491082

Source	Df	Anova SS	F-Value	Prob > F
year	1	272.060552	5.304	0.05023
season	1	102.037255	1.98927	0.19609
year*season	1	30.641360	0.59737	0.46181

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 51.293903

	N	Mean
85	6	33.857965
86	6	24.335001

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 51.293903

	N	Mean
fall	6	32.012491
spring	6	26.180475

By-> assem=E Petrocelis sp(p). site=C

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	665.870447	221.956816	4.2779	0.04449
Error	8	415.076162	51.884520		
Total	11	1080.946609			

R-Square	C.V.	Std Dev	pctcover Mean
0.616007	30.810795	7.203091	23.378466

Source	Df	Anova SS	F-Value	Prob > F
year	1	160.915419	3.10141	0.11625
season	1	192.334896	3.70698	0.09037
year*season	1	312.620132	6.0253	0.03965

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 51.884520

	N	Mean
85	6	27.040380
86	6	19.716551

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 51.884520

	N	Mean
spring	6	27.381953
fall	6	19.374979

By-> assem=E Petrocelis sp(p). site=F

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	1010.814123	336.938041	7.5833	0.01003
Error	8	355.452312	44.431539		
Total	11	1366.266435			

R-Square	C.V.	Std Dev	pctcover Mean
0.739837	30.283576	6.665699	22.010937

Source	Df	Anova SS	F-Value	Prob > F
year	1	395.964312	8.9118	0.01746
season	1	295.849678	6.6586	0.03260
year*season	1	319.000133	7.1796	0.02795

Sorted Means List For Class Variable ->year

Alpha=.05 Df=8 MSE= 44.431539

	N	Mean
85	6	27.755241
86	6	16.266633

Sorted Means List For Class Variable ->season

Alpha=.05 Df=8 MSE= 44.431539

	N	Mean
fall	6	26.976230
spring	6	17.045643

By-> assem=E Chthamalus sp(p). site=A

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	357.629551	119.209850	1.7069	0.24235
Error	8	558.717155	69.839644		
Total	11	916.346706			

R-Square	C.V.	Std Dev	pctcover Mean
0.390278	127.736768	8.357012	6.542370

Source	Df	Anova SS	F-Value	Prob > F
year	1	6.857572	0.09819	0.76203
season	1	75.563308	1.08195	0.32867
year*season	1	275.208671	3.94058	0.08240

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 69.839644

	N	Mean
85	6	7.298322
86	6	5.786417

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 69.839644

	N	Mean
fall	6	9.051741
spring	6	4.032999

By-> assem=E Chthamalus sp(p). site=B

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	239.114944	79.704981	1.9820	0.19532
Error	8	321.704710	40.213089		
Total	11	560.819654			

R-Square	C.V.	Std Dev	pctcover Mean
0.426367	81.190070	6.341379	7.810535

Source	Df	Anova SS	F-Value	Prob > F
year	1	154.176483	3.83399	0.08592
season	1	7.446938	0.18519	0.67831
year*season	1	77.491523	1.92702	0.20252

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 40.213089

	N	Mean
85	6	11.394952
86	6	4.226119

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 40.213089

	N	Mean
fall	6	8.598303
spring	6	7.022767

By-> assem=E Balanus glandula site=E

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	76.664841	25.554947	1.4789	0.29195
Error	8	138.232375	17.279047		
Total	11	214.897216			

R-Square	C.V.	Std Dev	pctcover Mean
0.356751	85.808316	4.156807	4.844294

Source	Df	Anova SS	F-Value	Prob > F
year	1	67.493468	3.90609	0.08351
season	1	4.585687	0.26539	0.62037
year*season	1	4.585687	0.26539	0.62037

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 17.279047

	N	Mean
85	6	7.215888
86	6	2.472701

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 17.279047

	N	Mean
fall	6	5.462469
spring	6	4.226119

By-> assem=E Mytilus californianus site=D

ANOVA --- Class Level Breakdown

Variable	Count	Values
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year	2	85 86
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season	2	fall spring
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***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	695.828300	231.942767	3.2435	0.08140
Error	8	572.065805	71.508226		
Total	11	1267.894105			

R-Square	C.V.	Std Dev	pctcover Mean
0.548806	90.217327	8.456254	9.373203

Source	Df	Anova SS	F-Value	Prob > F
year	1	317.909737	4.44578	0.06803
season	1	270.390984	3.78126	0.08773
year*season	1	107.527578	1.50371	0.25497

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 71.508226

	N	Mean
85	6	14.520288
86	6	4.226119

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 71.508226

	N	Mean
spring	6	14.120053
fall	6	4.626354

By-> assem=E Grazer Limpets site=F

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	4752.515625	1584.171875	15.1226	0.00117
Error	8	838.041667	104.755208		
Total	11	5590.557292			

R-Square	C.V.	Std Dev	count Mean
0.850097	37.530937	10.234999	27.270833

Source	Df	Anova SS	F-Value	Prob > F
year	1	57.421875	0.54815	0.48024
season	1	3915.046875	37.3733	0.00029
year*season	1	780.046875	7.4464	0.02589

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 104.755208

	N	Mean
85	6	29.458333
86	6	25.083333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 104.755208

	N	Mean
fall	6	45.333333
spring	6	9.208333

By-> assem=E Littorina scutulata/plena site=B

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	322.229167	107.409722	1.5680	0.27124
Error	8	548.000000	68.500000		
Total	11	870.229167			

R-Square	C.V.	Std Dev	count Mean
0.370281	128.151835	8.276473	6.458333

Source	Df	Anova SS	F-Value	Prob > F
year	1	256.687500	3.74726	0.08892
season	1	63.020833	0.92001	0.36556
year*season	1	2.520833	0.0368005	0.85265

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 68.500000

	N	Mean
86	6	11.083333
85	6	1.833333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 68.500000

	N	Mean
fall	6	8.750000
spring	6	4.166667

By-> assem=E Littorina scutulata/plena site=D

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	77273.687500	25757.895833	1.9382	0.20202
Error	8	106315.54	13289.442708		
Total	11	183589.23			

R-Square	C.V.	Std Dev	count Mean
0.420905	116.199760	115.279845	99.208333

Source	Df	Anova SS	F-Value	Prob > F
year	1	22881.333333	1.72177	0.22586
season	1	51811.020833	3.89866	0.08376
year*season	1	2581.333333	0.19424	0.67108

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE=13289.442708

	N	Mean
86	6	142.875000
85	6	55.541667

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE=13289.442708

	N	Mean
spring	6	164.916667
fall	6	33.500000

By-> assem=E Littorina scutulata/plena site=E

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	2302571.2	767523.7	11.2165	0.00308
Error	8	547421.29	68427.661458		
Total	11	2849992.5			

R-Square	C.V.	Std Dev	count Mean
0.807922	39.563182	261.586814	661.187500

Source	Df	Anova SS	F-Value	Prob > F
year	1	22946.880208	0.33535	0.57846
season	1	2276576.3	33.2698	0.00042
year*season	1	3048.046875	0.0445441	0.83812

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE=68427.661458

	N	Mean
85	6	704.916667
86	6	617.458333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE=68427.661458

	N	Mean
fall	6	1096.750000
spring	6	225.625000

By-> assem=E Littorina scutulata/plena site=F

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	3142.020833	1047.340278	2.7280	0.11400
Error	8	3071.291667	383.911458		
Total	11	6213.312500			

R-Square	C.V.	Std Dev	count Mean
0.505692	119.655931	19.593659	16.375000

Source	Df	Anova SS	F-Value	Prob > F
year	1	533.333333	1.38921	0.27240
season	1	256.687500	0.66861	0.43721
year*season	1	2352.000000	6.1264	0.03840

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 383.911458

	N	Mean
85	6	23.041667
86	6	9.708333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 383.911458

	N	Mean
fall	6	21.000000
spring	6	11.750000

By-> assem=E Nucella emarginata site=8

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	9.666667	3.222222	4.2962	0.04405
Error	8	6.000000	0.750000		
Total	11	15.666667			

R-Square	C.V.	Std Dev	count Mean
0.617021	103.923048	0.866025	0.833333

Source	Df	Anova SS	F-Value	Prob > F
year	1	5.333333	7.1111	0.02851
season	1	3.000000	4	0.08052
year*season	1	1.333333	1.77778	0.21914

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 0.750000

	N	Mean
86	6	1.500000
85	6	0.166667

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 0.750000

	N	Mean
spring	6	1.333333
fall	6	0.333333

By-> assem=E Nucella emarginata site=F

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	2.916667	0.972222	3.8888	0.05528
Error	8	2.000000	0.250000		
Total	11	4.916667			

R-Square	C.V.	Std Dev	count Mean
0.593220	85.714286	0.500000	0.583333

Source	Df	Anova SS	F-Value	Prob > F
year	1	0.083333	0.33333	0.57958
season	1	0.750000	3	0.12150
year*season	1	2.083333	8.3333	0.02030

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 0.250000

	N	Mean
86	6	0.666667
85	6	0.500000

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 0.250000

	N	Mean
spring	6	0.833333
fall	6	0.333333

By-> assem=M Crustose corallines, unident. site=D

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	499.329303	166.443101	8.3559	0.00757
Error	8	159.353238	19.919155		
Total	11	658.682541			

R-Square	C.V.	Std Dev	pctcover Mean
0.758073	23.930210	4.463088	18.650434

Source	Df	Anova SS	F-Value	Prob > F
year	1	422.937130	21.2327	0.00174
season	1	57.716612	2.89754	0.12713
year*season	1	18.675561	0.93757	0.36126

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 19.919155

	N	Mean
85	6	24.587164
86	6	12.713704

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 19.919155

	N	Mean
spring	6	20.843541
fall	6	16.457327

By-> assem=M Corallina vancouveriensis site=D

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	264.252590	88.084197	1.7036	0.24298
Error	8	413.626658	51.703332		
Total	11	677.879247			

R-Square	C.V.	Std Dev	pctcover Mean
0.389823	160.344967	7.190503	4.484396

Source	Df	Anova SS	F-Value	Prob > F
year	1	241.317664	4.66735	0.06275
season	1	11.467463	0.22179	0.65025
year*season	1	11.467463	0.22179	0.65025

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 51.703332

	N	Mean
85	6	8.968792
86	6	0.000000

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 51.703332

	N	Mean
fall	6	5.461955
spring	6	3.506837

By-> assem=M Corallina vancouveriensis site=E

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	645.322101	215.107367	3.8210	0.05748
Error	8	450.368122	56.296015		
Total	11	1095.690223			

R-Square	C.V.	Std Dev	pctcover Mean
0.588964	101.544188	7.503067	7.388968

Source	Df	Anova SS	F-Value	Prob > F
year	1	180.851286	3.21251	0.11084
season	1	232.235407	4.12525	0.07673
year*season	1	232.235407	4.12525	0.07673

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 56.296015

	N	Mean
85	6	11.271098
86	6	3.506837

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 56.296015

	N	Mean
spring	6	11.788166
fall	6	2.989769

By-> assem=M Mastocarpus papillatus site=C

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	1013.756830	337.918943	5.6945	0.02196
Error	8	474.727020	59.340878		
Total	11	1488.483850			

R-Square	C.V.	Std Dev	pctcover Mean
0.681067	33.518576	7.703303	22.982191

Source	Df	Anova SS	F-Value	Prob > F
year	1	659.601197	11.1155	0.01032
season	1	354.145528	5.968	0.04038
year*season	1	0.010104	1.703e-04	0.98991

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 59.340878

	N	Mean
85	6	30.396148
86	6	15.568233

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 59.340878

	N	Mean
fall	6	28.414697
spring	6	17.549684

By-> assem=M Petrocelis sp(p). site=0

ANOVA --- Class Level Breakdown

Variable	Count	Values
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year	2	85 86
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season	2	fall spring
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***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	458.694775	152.898258	4.1071	0.04887
Error	8	297.817920	37.227240		
Total	11	756.512695			

R-Square
0.606328

C.V.
94.148456

Std Dev
6.101413

pctcover Mean
6.480630

Source	Df	Anova SS	F-Value	Prob > F
year	1	41.260079	1.10833	0.32320
season	1	192.761952	5.178	0.05244
year*season	1	224.672743	6.0352	0.03952

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 37.227240

	N	Mean
85	6	8.334906
86	6	4.626354

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 37.227240

	N	Mean
fall	6	10.488539
spring	6	2.472701

By-> assem=M Chthamalus sp(p). site=A

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	130.078001	43.359334	2.2733	0.15706
Error	8	152.582486	19.072811		
Total	11	282.660487			

R-Square	C.V.	Std Dev	pctcover Mean
0.460192	38.253105	4.367243	11.416702

Source	Df	Anova SS	F-Value	Prob > F
year	1	13.152228	0.68958	0.43039
season	1	70.628230	3.70308	0.09051
year*season	1	46.297542	2.42741	0.15785

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 19.072811

	N	Mean
85	6	12.463611
86	6	10.369793

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 19.072811

	N	Mean
spring	6	13.842745
fall	6	8.990659

By-> assem=M Chthamalus sp(p). site=C

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	1277.198418	425.732806	8.2589	0.00783
Error	8	412.382517	51.547815		
Total	11	1689.580935			

R-Square	C.V.	Std Dev	pctcover Mean
0.755926	32.905529	7.179681	21.819071

Source	Df	Anova SS	F-Value	Prob > F
year	1	206.509582	4.00618	0.08032
season	1	1028.536995	19.9531	0.00209
year*season	1	42.151842	0.81772	0.39226

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 51.547815

	N	Mean
85	6	25.967460
86	6	17.670682

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 51.547815

	N	Mean
fall	6	31.077117
spring	6	12.561025

By-> assem=M Chthamalus sp(p). site=F

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	479.270434	159.756811	5.6803	0.02211
Error	8	224.997624	28.124703		
Total	11	704.268059			

R-Square	C.V.	Std Dev	pctcover Mean
0.680523	49.258833	5.303273	10.766136

Source	Df	Anova SS	F-Value	Prob > F
year	1	104.355605	3.71046	0.09024
season	1	132.410757	4.70799	0.06184
year*season	1	242.504073	8.6225	0.01881

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 28.124703

	N	Mean
86	6	13.715085
85	6	7.817187

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 28.124703

	N	Mean
fall	6	14.087917
spring	6	7.444355

By-> assem=M Balanus glandula site=A

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	249.246820	83.082273	3.4168	0.07311
Error	8	194.525113	24.315639		
Total	11	443.771933			

R-Square	C.V.	Std Dev	pctcover Mean
0.561655	42.264257	4.931089	11.667280

Source	Df	Anova SS	F-Value	Prob > F
year	1	229.184295	9.4254	0.01535
season	1	15.472778	0.63633	0.44807
year*season	1	4.589746	0.18876	0.67543

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 24.315639

	N	Mean
86	6	16.037485
85	6	7.297075

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 24.315639

	N	Mean
fall	5	12.802796
spring	6	10.531763

By-> assem=M Balanus glandula site=C

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	1462.972758	487.657586	4.9432	0.03146
Error	8	789.214364	98.651796		
Total	11	2252.187123			

R-Square	C.V.	Std Dev	pctcover Mean
0.649579	47.329863	9.932361	20.985400

Source	Df	Anova SS	F-Value	Prob > F
year	1	0.669943	0.006791	0.93635
season	1	1419.246054	14.3864	0.00529
year*season	1	43.056761	0.43645	0.52740

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 98.651796

	N	Mean
85	6	21.221681
86	6	20.749119

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 98.651796

	N	Mean
spring	6	31.860624
fall	6	10.110176

By-> assem=M Mytilus californianus site=A

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	153.809459	51.269820	1.3138	0.33550
Error	8	312.175715	39.021964		
Total	11	465.985174			

R-Square	C.V.	Std Dev	pctcover Mean
0.330074	8.168484	6.246756	76.473874

Source	Df	Anova SS	F-Value	Prob > F
year	1	153.521097	3.93422	0.08260
season	1	0.114797	0.0029419	0.95807
year*season	1	0.173565	0.0044479	0.94846

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 39.021964

	N	Mean
86	6	80.050664
85	6	72.897085

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 39.021964

	N	Mean
spring	6	76.571682
fall	6	76.376066

By-> assem=M Mytilus californianus site=B

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	330.043712	110.014571	3.1877	0.08432
Error	8	276.090914	34.511364		
Total	11	606.134627			

R-Square	C.V.	Std Dev	pctcover Mean
0.544506	8.127401	5.874637	72.281869

Source	Df	Anova SS	F-Value	Prob > F
year	1	17.393950	0.50401	0.49791
season	1	0.616731	0.0178704	0.89696
year*season	1	312.033031	9.0415	0.01689

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 34.511364

	N	Mean
85	6	73.485819
86	6	71.077919

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 34.511364

	N	Mean
spring	6	72.508572
fall	6	72.055166

By-> assem=M Mytilus californianus site=0

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> pctcover

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	557.080345	185.693448	3.2470	0.08122
Error	8	457.505098	57.188137		
Total	11	1014.585444			

R-Square	C.V.	Std Dev	pctcover Mean
0.549072	20.340158	7.562284	37.179082

Source	Df	Anova SS	F-Value	Prob > F
year	1	465.561072	8.1409	0.02137
season	1	86.704132	1.51612	0.25317
year*season	1	4.815141	0.0842	0.77907

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 57.188137

	N	Mean
86	6	43.407786
85	6	30.950377

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 57.188137

	N	Mean
fall	6	39.867082
spring	6	34.491082

By-> assem=M Chitons site=A

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	1.000000	0.333333	4.0000	0.05189
Error	8	0.666667	0.083333		
Total	11	1.666667			

R-Square	C.V.	Std Dev	count Mean
0.600000	173.205081	0.288675	0.166667

Source	Df	Anova SS	F-Value	Prob > F
year	1	0.333333	4	0.08052
season	1	0.333333	4	0.08052
year*season	1	0.333333	4	0.08052

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 0.083333

	N	Mean
86	6	0.333333
85	6	0.000000

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 0.083333

	N	Mean
spring	6	0.333333
fall	6	0.000000

By-> assem=M Chitons site=F

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	53.666667	17.888889	3.5777	0.06632
Error	8	40.000000	5.000000		
Total	11	93.666667			

R-Square	C.V.	Std Dev	count Mean
0.572954	28.545549	2.236068	7.833333

Source	Df	Anova SS	F-Value	Prob > F
year	1	8.333333	1.66667	0.23276
season	1	12.000000	2.4	0.15993
year*season	1	33.333333	6.6667	0.03252

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 5.000000

	N	Mean
86	6	8.666667
85	6	7.000000

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 5.000000

	N	Mean
spring	6	8.833333
fall	6	6.833333

By-> assem=M Grazer Limpets site=A

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	9824.932292	3274.977431	2.1990	0.16587
Error	8	11913.958333	1489.244792		
Total	11	21738.890625			

R-Square	C.V.	Std Dev	count Mean
0.451952	63.720511	38.590735	60.562500

Source	Df	Anova SS	F-Value	Prob > F
year	1	68.880208	0.0462518	0.83510
season	1	277.921875	0.18662	0.67715
year*season	1	9478.130208	6.3644	0.03565

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 1489.244792

	N	Mean
86	6	62.958333
85	6	58.166667

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 1489.244792

	N	Mean
fall	6	65.375000
spring	6	55.750000

By-> assem=M Grazer Limpets site=C

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	1215.937500	405.312500	1.7049	0.24273
Error	8	1901.791667	237.723958		
Total	11	3117.729167			

R-Square	C.V.	Std Dev	count Mean
0.390007	90.918719	15.418299	16.958333

Source	Df	Anova SS	F-Value	Prob > F
year	1	27.000000	0.11358	0.74478
season	1	1170.187500	4.92246	0.05730
year*season	1	18.750000	0.078873	0.78596

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 237.723958

	N	Mean
85	6	18.458333
86	6	15.458333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 237.723958

	N	Mean
fall	6	26.833333
spring	6	7.083333

By-> assem=M Grazer Limpets site=E

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	23808.932292	7936.310764	10.1607	0.00420
Error	8	6248.625000	781.078125		
Total	11	30057.557292			

R-Square	C.V.	Std Dev	count Mean
0.792111	35.955326	27.947775	77.729167

Source	Df	Anova SS	F-Value	Prob > F
year	1	53.130208	0.0680216	0.80083
season	1	14473.380208	18.53	0.00260
year*season	1	9282.421875	11.8841	0.00873

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 781.078125

	N	Mean
86	6	79.833333
85	6	75.625000

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 781.078125

	N	Mean
fall	6	112.458333
spring	6	43.000000

By-> assem=M Grazer Limpets site=F

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	64975.515625	21658.505208	13.1232	0.00186
Error	8	13203.166667	1650.395833		
Total	11	78178.682292			

R-Square	C.V.	Std Dev	count Mean
0.831116	18.679980	40.625064	217.479167

Source	Df	Anova SS	F-Value	Prob > F
year	1	19947.130208	12.0863	0.00836
season	1	44256.380208	26.8156	0.00084
year*season	1	772.005208	0.46777	0.51333

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 1650.395833

	N	Mean
86	6	258.250000
85	6	176.708333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 1650.395833

	N	Mean
fall	6	278.208333
spring	6	156.750000

By-> assem=M Tegula funebris site=A

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	697.666667	232.555556	1.6464	0.25446
Error	8	1130.000000	141.250000		
Total	11	1827.666667			

R-Square	C.V.	Std Dev	count Mean
0.381725	56.148965	11.884864	21.166667

Source	Df	Anova SS	F-Value	Prob > F
year	1	533.333333	3.77581	0.08792
season	1	161.333333	1.14218	0.31638
year*season	1	3.000000	0.0212389	0.88774

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 141.250000

	N	Mean
85	6	27.833333
86	6	14.500000

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 141.250000

	N	Mean
fall	6	24.833333
spring	6	17.500000

By-> assem=M Littorina scutulata/plena site=A

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	6817.520833	2272.506944	6.2915	0.01686
Error	8	2889.583333	361.197917		
Total	11	9707.104167			

R-Square	C.V.	Std Dev	count Mean
0.702323	63.793704	19.005208	29.791667

Source	Df	Anova SS	F-Value	Prob > F
year	1	3267.000000	9.0449	0.01688
season	1	1963.520833	5.4361	0.04805
year*season	1	1587.000000	4.39371	0.06935

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 361.197917

	N	Mean
86	6	46.291667
85	6	13.291667

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 361.197917

	N	Mean
fall	6	42.583333
spring	6	17.000000

By-> assem=M Littorina scutulata/plena site=C

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	132244.27	44081.421875	3.7203	0.06095
Error	8	94790.375000	11848.796875		
Total	11	227034.64			

R-Square	C.V.	Std Dev	count Mean
0.582485	99.351675	108.852179	109.562500

Source	Df	Anova SS	F-Value	Prob > F
year	1	21147.005208	1.78474	0.21832
season	1	78934.630208	6.6618	0.03256
year*season	1	32162.630208	2.71442	0.13806

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE=11848.796875

	N	Mean
86	6	151.541667
85	6	67.583333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE=11848.796875

	N	Mean
fall	6	190.666667
spring	6	28.458333

By-> assem=M Littorina scutulata/plena site=0

ANOVA --- Class Level Breakdown

Variable Count Values

year 2 85 86

season 2 fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	776.437500	258.812500	1.9596	0.19870
Error	8	1056.541667	132.067708		
Total	11	1832.979167			

R-Square	C.V.	Std Dev	count Mean
0.423593	152.381059	11.492072	7.541667

Source	Df	Anova SS	F-Value	Prob > F
year	1	481.333333	3.6446	0.09266
season	1	184.083333	1.39386	0.27166
year*season	1	111.020833	0.84064	0.38602

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 132.067708

	N	Mean
85	6	13.875000
86	6	1.208333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 132.067708

	N	Mean
spring	6	11.458333
fall	6	3.625000

By-> assem=M Nucella emarginata site=C

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	43.000000	14.333333	2.9655	0.09730
Error	8	38.666667	4.833333		
Total	11	81.666667			

R-Square	C.V.	Std Dev	count Mean
0.526531	52.763624	2.198484	4.166667

Source	Df	Anova SS	F-Value	Prob > F
year	1	8.333333	1.72414	0.22557
season	1	33.333333	6.8966	0.03036
year*season	1	1.333333	0.27586	0.61367

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 4.833333

	N	Mean
86	6	5.000000
85	6	3.333333

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 4.833333

	N	Mean
fall	6	5.833333
spring	6	2.500000

By-> assem=M Nucella emarginata site=E

ANOVA --- Class Level Breakdown

Variable	Count	Values
year	2	85 86
season	2	fall spring

***** Analysis Of Variance *****

Dependent Variable -> count

Source	Df	Sum Of Squares	Mean Square	F Value	Prob > F
Model	3	25.583333	8.527778	2.7657	0.11112
Error	8	24.666667	3.083333		
Total	11	50.250000			

R-Square	C.V.	Std Dev	count Mean
0.509121	78.041880	1.755942	2.250000

Source	Df	Anova SS	F-Value	Prob > F
year	1	0.750000	0.24324	0.63513
season	1	24.083333	7.8108	0.02339
year*season	1	0.750000	0.24324	0.63513

Sorted Means List For Class Variable ->year
Alpha=.05 Df=8 MSE= 3.083333

	N	Mean
86	6	2.500000
85	6	2.000000

Sorted Means List For Class Variable ->season
Alpha=.05 Df=8 MSE= 3.083333

	N	Mean
fall	6	3.666667
spring	6	0.833333

APPENDIX F

Bray-Curtis Similarity Values

APPENDIX F

Bray-Curtis Similarity Values

TABLE OF CONTENTS

	<u>Page</u>
<i>Endocladia/Mastocarpus papillatus</i> Assemblage	
Kibesillah Hill	III-219
Sea Ranch	III-219
Bolinas	III-220
Pescadero Rocks	III-220
Point Sierra Nevada	III-221
Diablo Canyon	III-221
<i>Mytilus</i> Assemblage	
Kibesillah Hill	III-222
Sea Ranch	III-222
Bolinas	III-223
Pescadero Rocks	III-223
Point Sierra Nevada	III-224
Diablo Canyon	III-224

M.M.S. BRAY-CURTIS SIMILARITY INDICES
 (BETWEEN PLOT PERCENT SIMILARITY FOR CONTROL PLOTS)
 (AVERAGE OF SIMILARITY TO CONTROLS FOR CLEARED PLOTS)
 (MISSING PERCENT COVER DATA SET TO 0.5%)

ASSEM: ENDOCLADIA
 SITE: KIBESILLAH HILL

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	42.92	.	.	41.85	32.11	.
C1-C3	41.61	.	56.31	.	50.12	.
C1-C4	.	.	37.64	40.10	.	.
C2-C3	57.14	59.35	.	.	56.20	62.83
C2-C4	.	63.12	.	66.23	.	50.38
C3-C4	.	46.49	61.83	.	.	48.53
F1-C	.	.	49.43	9.31	15.55	15.36
F2-C	.	.	49.81	8.41	16.25	11.96
F3-C	.	.	46.85	9.15	10.46	8.09
S1-C	51.56	6.82	28.53	.	49.72	54.87
S2-C	60.29	7.44	48.01	.	50.00	58.61
S3-C	56.00	8.08	16.55	.	41.98	63.19

ASSEM: ENDOCLADIA
 SITE: SEA RANCH

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	69.70	.	.	48.77	51.42	.
C1-C3	52.33	.	55.42	.	55.46	.
C1-C4	.	.	61.61	40.21	.	.
C2-C3	63.96	53.52	.	.	66.88	56.16
C2-C4	.	66.38	.	29.45	.	59.30
C3-C4	.	63.49	67.25	.	.	67.59
F1-C	.	.	65.72	7.59	15.29	23.89
F2-C	.	.	55.02	6.71	18.16	21.69
F3-C	.	.	67.38	13.32	15.67	17.65
S1-C	68.20	6.34	16.28	.	20.98	30.26
S2-C	60.40	4.73	17.12	.	16.22	28.54
S3-C	61.70	5.76	20.75	.	15.64	23.18

M.M.S. BRAY-CURTIS SIMILARITY INDICES
 (BETWEEN PLOT PERCENT SIMILARITY FOR CONTROL PLOTS)
 (AVERAGE OF SIMILARITY TO CONTROLS FOR CLEARED PLOTS)
 (MISSING PERCENT COVER DATA SET TO 0.5%)

ASSEM: ENDOCLADIA
 SITE: BOLINAS

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	61.21	.	.	59.31	60.05	.
C1-C3	71.55	.	72.56	.	61.43	.
C1-C4	.	.	65.87	54.52	.	.
C2-C3	66.74	62.29	.	.	65.22	57.22
C2-C4	.	68.97	.	45.33	.	67.38
C3-C4	.	62.66	66.14	.	.	61.59
F1-C	.	.	60.99	7.91	14.28	40.58
F2-C	.	.	69.56	8.06	17.38	42.81
F3-C	.	.	66.48	7.51	19.50	41.45
S1-C	68.57	10.93	20.25	.	35.91	54.45
S2-C	64.01	11.57	16.77	.	39.82	52.43
S3-C	60.54	12.81	16.58	.	36.63	46.05

ASSEM: ENDOCLADIA
 SITE: PESCADERO ROCKS

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	57.22	.	.	83.03	56.61	.
C1-C3	68.02	.	73.21	.	58.80	.
C1-C4	.	.	77.07	80.72	.	.
C2-C3	70.84	82.53	.	.	79.90	73.24
C2-C4	.	79.39	.	87.89	.	64.90
C3-C4	.	72.06	65.12	.	.	74.46
F1-C	.	.	63.40	8.38	6.36	5.66
F2-C	.	.	74.84	5.31	6.20	9.09
F3-C	.	.	62.73	5.6	15.76	7.00
S1-C	70.67	8.17	9.52	.	7.45	25.95
S2-C	64.66	7.06	9.09	.	7.29	21.46
S3-C	70.75	7.82	11.11	.	12.03	28.02

M.M.S. BRAY-CURTIS SIMILARITY INDICES
 (BETWEEN PLOT PERCENT SIMILARITY FOR CONTROL PLOTS)
 (AVERAGE OF SIMILARITY TO CONTROLS FOR CLEARED PLOTS)
 (MISSING PERCENT COVER DATA SET TO 0.5%)

ASSEM: ENDOCLADIA
 SITE: PT. SIERRA NEVADA

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	79.19	.	.	75.49	86.12	.
C1-C3	76.19	.	63.23	.	90.80	.
C1-C4	.	.	51.58	73.78	.	.
C2-C3	88.89	83.82	.	.	88.18	13.87
C2-C4	.	85.94	.	79.92	.	15.44
C3-C4	.	92.97	59.00	.	.	91.65
F1-C	.	.	52.88	14.34	24.06	49.90
F2-C	.	.	68.25	13.49	6.05	19.49
F3-C	.	.	64.43	11.65	18.56	47.24
S1-C	75.12	5.79	22.20	.	47.50	53.20
S2-C	76.69	4.49	28.70	.	16.38	13.41
S3-C	85.27	4.49	27.55	.	13.85	19.02

ASSEM: ENDOCLADIA
 SITE: DIABLO CANYON

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	65.78	.	.	69.02	72.81	.
C1-C3	75.11	.	75.90	.	67.43	.
C1-C4	.	.	63.15	58.72	.	.
C2-C3	64.32	67.97	.	.	51.92	77.23
C2-C4	.	80.55	.	84.19	.	85.10
C3-C4	.	57.22	72.92	.	.	68.42
F1-C	.	.	53.28	6.80	8.64	39.30
F2-C	.	.	56.07	11.15	12.98	32.25
F3-C	.	.	67.09	8.29	13.87	20.67
S1-C	76.02	5.58	11.57	.	18.19	36.91
S2-C	67.31	7.82	33.30	.	48.40	74.43
S3-C	69.36	5.00	37.25	.	33.67	59.85

M.M.S. BRAY-CURTIS SIMILARITY INDICES
 (BETWEEN PLOT PERCENT SIMILARITY FOR CONTROL PLOTS)
 (AVERAGE OF SIMILARITY TO CONTROLS FOR CLEARED PLOTS)
 (MISSING PERCENT COVER DATA SET TO 0.5%)

ASSEM: MYTILUS
 SITE: KIBESILLAH HILL

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	81.32	.	.	81.76	93.81	.
C1-C3	83.50	.	82.57	.	86.82	.
C1-C4	.	.	84.87	79.86	.	.
C2-C3	89.81	84.59	.	.	92.21	95.63
C2-C4	.	88.89	.	86.22	.	87.88
C3-C4	.	76.28	75.72	.	.	90.91
F1-C	.	.	65.57	8.60	5.47	9.78
F2-C	.	.	86.38	8.28	4.98	10.11
F3-C	.	.	77.71	6.89	5.12	14.08
S1-C	87.38	5.65	18.02	.	15.02	12.31
S2-C	83.67	9.36	18.43	.	22.47	19.33
S3-C	83.70	5.51	17.52	.	19.26	22.68

ASSEM: MYTILUS
 SITE: SEA RANCH

INTER-PI OT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	91.28	.	.	54.19	81.85	.
C1-C3	80.51	.	80.10	.	82.67	.
C1-C4	.	.	87.79	85.25	.	.
C2-C3	77.85	62.65	.	.	79.63	60.47
C2-C4	.	63.24	.	53.81	.	78.71
C3-C4	.	83.72	79.44	.	.	73.76
F1-C	.	.	63.18	7.07	9.14	19.15
F2-C	.	.	84.96	5.40	15.17	15.28
F3-C	.	.	75.61	6.59	11.14	21.08
S1-C7	8.58	5.00	13.47	.	13.17	16.57
S2-C7	9.10	5.00	9.11	.	13.70	18.74
S3-C8	2.46	4.47	11.58	.	15.62	16.10

M.M.S. BRAY-CURTIS SIMILARITY INDICES
 (BETWEEN PLOT PERCENT SIMILARITY FOR CONTROL PLOTS)
 (AVERAGE OF SIMILARITY TO CONTROLS FOR CLEARED PLOTS)
 (MISSING PERCENT COVER DATA SET TO 0.5%)

ASSEM: MYTILUS
 SITE: BOLINAS

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	72.56	.	.	69.86	85.19	.
C1-C3	68.08	.	88.59	.	78.92	.
C1-C4	.	.	82.50	64.63	.	.
C2-C3	89.49	80.94	.	.	85.19	84.68
C2-C4	.	82.94	.	87.96	.	78.06
C3-C4	.	88.37	84.75	.	.	78.79
F1-C	.	.	73.37	4.95	18.21	23.05
F2-C	.	.	73.58	4.76	9.42	30.51
F3-C	.	.	64.86	7.54	14.12	27.43
S1-C	80.33	8.83	31.85	.	27.35	34.98
S2-C	76.32	5.49	31.33	.	27.98	18.28
S3-C	71.68	5.10	34.10	.	12.33	18.86

ASSEM: MYTILUS
 SITE: PESCADERO ROCKS

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	66.67	.	.	71.89	63.54	.
C1-C3	60.27	.	59.04	.	81.96	.
C1-C4	.	.	56.42	70.62	.	.
C2-C3	52.32	46.15	.	.	58.97	68.53
C2-C4	.	86.33	.	64.46	.	63.76
C3-C4	.	46.79	51.61	.	.	67.73
F1-C	.	.	48.55	6.80	8.28	16.33
F2-C	.	.	48.92	8.79	9.96	13.74
F3-C	.	.	54.97	9.35	8.87	12.16
S1-C	63.66	8.36	16.40	.	20.01	28.00
S2-C	62.80	8.20	15.39	.	19.86	22.87
S3-C	70.18	9.73	17.92	.	18.17	20.49

M.M.S. BRAY-CURTIS SIMILARITY INDICES
 (BETWEEN PLOT PERCENT SIMILARITY FOR CONTROL PLOTS)
 (AVERAGE OF SIMILARITY TO CONTROLS FOR CLEARED PLOTS)
 (MISSING PERCENT COVER DATA SET TO 0.5%)

ASSEM: MYTILUS
 SITE: PT. SIERRA NEVADA

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	62.59	.	.	72.49	79.91	.
C1-C3	63.93	.	73.45	.	76.12	.
C1-C4	.	.	77.27	77.55	.	.
C2-C3	55.92	65.16	.	.	80.45	70.78
C2-C4	.	70.76	.	66.75	.	64.14
C3-C4	.	73.07	59.56	.	.	77.85
F1-C	.	.	70.17	11.89	11.10	8.08
F2-C	.	.	55.21	9.32	11.35	10.33
F3-C	.	.	78.24	13.98	9.75	9.61
S1-C	72.37	8.33	16.37	.	16.76	8.82
S2-C	69.70	6.56	21.46	.	20.30	10.56
S3-C	72.38	6.88	23.74	.	20.92	14.85

ASSEM: MYTILUS
 SITE: DIABLO CANYON

INTER-PLOT CATEGORY	SAMPLING DATE					
	SP 85	SM 85	FL 85	WN 86	SP 86	FL 86
C1-C2	75.78	.	.	49.29	79.18	.
C1-C3	63.41	.	68.28	.	76.43	.
C1-C4	.	.	53.12	76.46	.	.
C2-C3	63.37	61.98	.	.	81.64	52.86
C2-C4	.	77.35	.	67.06	.	65.85
C3-C4	.	53.21	56.33	.	.	64.52
F1-C	.	.	66.98	6.45	15.02	28.26
F2-C	.	.	65.78	7.36	13.10	17.21
F3-C	.	.	63.25	9.10	13.38	28.36
S1-C	64.65	7.63	24.30	.	30.96	26.44
S2-C	58.46	10.61	26.19	.	27.03	18.71
S3-C	60.29	7.28	24.53	.	29.47	25.95

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interest of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. Administration.



END

06/15/90